

SEQUENCE LISTING

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<120> Purified and Isolated Platelet Calcium Channel Nucleic Acids and
Polypeptides and Therapeutic and Screening Methods Using Same

10 <130> 421/29/2/2

<150> US 09/029,413
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15 <150> US 60/258,169
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<160> 29

20 <170> PatentIn version 3.2

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	Ala Ala Gln Thr Met Ser Thr Ser Ala Pro Pro Pro Val Gly Ser Leu	
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25	tcc caa aga aaa cgt cag caa tac gcc aag agc aaa aaa cag ggt aac	288
	Ser Gln Arg Lys Arg Gln Gln Tyr Ala Lys Ser Lys Lys Gln Gly Asn	
	85 90 95	
	tcg tcc aac agc cga cct gcc cgc gcc ctt ttc tgt tta tca ctc aat	336
	Ser Ser Asn Ser Arg Pro Ala Arg Ala Leu Phe Cys Leu Ser Leu Asn	
	100 105 110	
30	aac ccc atc cga aga gcc tgc att agt ata gtg gaa tgg aaa cca ttt	384
	Asn Pro Ile Arg Arg Ala Cys Ile Ser Ile Val Glu Trp Lys Pro Phe	
	115 120 125	
35	gac ata ttt ata tta ttg gct att ttt gcc aat tgt gtg gcc tta gct	432
	Asp Ile Phe Ile Leu Leu Ala Ile Phe Ala Asn Cys Val Ala Leu Ala	
	130 135 140	
40	att tac atc cca ttc cct gaa gat gat tct aat tca aca aat cat aac	480
	Ile Tyr Ile Pro Phe Pro Glu Asp Asp Ser Asn Ser Thr Asn His Asn	
	145 150 155 160	
	ttg gaa aaa gta gaa tat gcc ttc ctg att att ttt aca gtc gag aca	528
	Leu Glu Lys Val Glu Tyr Ala Phe Leu Ile Ile Phe Thr Val Glu Thr	
	165 170 175	
45	ttt ttg aag att ata gcg tat gga tta ttg cta cat cct aat gct tat	576
	Phe Leu Lys Ile Ile Ala Tyr Gly Leu Leu Leu His Pro Asn Ala Tyr	
	180 185 190	
50	gtt agg aat gga tgg aat tta ctg gat ttt gtt ata gta ata gta gga	624
	Val Arg Asn Gly Trp Asn Leu Leu Asp Phe Val Ile Val Ile Val Gly	
	195 200 205	
55	ttg ttt agt gta att ttg gaa caa tta acc aaa gaa aca gaa ggc ggg	672
	Leu Phe Ser Val Ile Leu Glu Gln Leu Thr Lys Glu Thr Glu Gly Gly	
	210 215 220	
60	aac cac tca agc ggc aaa tct gga ggc ttt gat gtc aaa gcc ctc cgt	720
	Asn His Ser Ser Gly Lys Ser Gly Gly Phe Asp Val Lys Ala Leu Arg	
	225 230 235 240	
	gcc ttt cga gtg ttg cga cca ctt cga cta gtg tca ggg gtg ccc agt	768
	Ala Phe Arg Val Leu Arg Pro Leu Arg Leu Val Ser Gly Val Pro Ser	
	245 250 255	

	tta caa gtt gtc ctg aac tcc att ata aaa gcc atg gtt ccc ctc ctt	816
	Leu Gln Val Val Leu Asn Ser Ile Ile Lys Ala Met Val Pro Leu Leu	
	260 265 270	
5	cac ata gcc ctt ttg gta tta ttt gta atc ata atc tat gct att ata	864
	His Ile Ala Leu Leu Val Leu Phe Val Ile Ile Ile Tyr Ala Ile Ile	
	275 280 285	
10	gga ttg gaa ctt ttt att gga aaa atg cac aaa aca tgt ttt ttt gct	912
	Gly Leu Glu Leu Phe Ile Gly Lys Met His Lys Thr Cys Phe Phe Ala	
	290 295 300	
15	gac tca gat atc gta gct gaa gag gac cca gct cca tgt gcg ttc tca	960
	Asp Ser Asp Ile Val Ala Glu Glu Asp Pro Ala Pro Cys Ala Phe Ser	
	305 310 315 320	
20	ggg aat gga cgc cag tgt act gcc aat ggc acg gaa tgt agg agt ggc	1008
	Gly Asn Gly Arg Gln Cys Thr Ala Asn Gly Thr Glu Cys Arg Ser Gly	
	325 330 335	
25	tgg gtt ggc ccg aac gga ggc atc acc aac ttt gat aac ttt gcc ttt	1056
	Trp Val Gly Pro Asn Gly Gly Ile Thr Asn Phe Asp Asn Phe Ala Phe	
	340 345 350	
	gcc atg ctt act gtg ttt cag tgc atc acc atg gag ggc tgg aca gac	1104
	Ala Met Leu Thr Val Phe Gln Cys Ile Thr Met Glu Gly Trp Thr Asp	
	355 360 365	
30	gtg ctc tac tgg gta aat gat gcg ata gga tgg gaa tgg cca tgg gtg	1152
	Val Leu Tyr Trp Val Asn Asp Ala Ile Gly Trp Glu Trp Pro Trp Val	
	370 375 380	
35	tat ttt gtt agt ctg atc atc ctt ggc tca ttt ttc gtc ctt aac ctg	1200
	Tyr Phe Val Ser Leu Ile Ile Leu Gly Ser Phe Phe Val Leu Asn Leu	
	385 390 395 400	
40	gtt ctt ggt gtc ctt agt gga gaa ttc tca aag gaa aga gag aag gca	1248
	Val Leu Gly Val Leu Ser Gly Glu Phe Ser Lys Glu Arg Glu Lys Ala	
	405 410 415	
45	aaa gca cgg gga gat ttc cag aag ctc cgg gag aag cag cag ctg gag	1296
	Lys Ala Arg Gly Asp Phe Gln Lys Leu Arg Glu Lys Gln Gln Leu Glu	
	420 425 430	
	gag gat cta aag ggc tac ttg gat tgg atc acc caa gct gag gac atc	1344
	Glu Asp Leu Lys Gly Tyr Leu Asp Trp Ile Thr Gln Ala Glu Asp Ile	
	435 440 445	
50	gat ccg gag aat gag gaa gaa gga gga gag gaa ggc aaa cga aat act	1392
	Asp Pro Glu Asn Glu Glu Glu Gly Gly Glu Glu Gly Lys Arg Asn Thr	
	450 455 460	
55	agc atg ccc acc agc gag act gag tct gtg aac aca gag aac gtc agc	1440
	Ser Met Pro Thr Ser Glu Thr Val Asn Thr Glu Asn Val Ser	
	465 470 475 480	
60	ggt gaa ggc gag aac cga ggc tgc tgt gga agt ctc tgg tgc tgg tgg	1488
	Gly Glu Gly Glu Asn Arg Gly Cys Cys Gly Ser Leu Trp Cys Trp Trp	
	485 490 495	
	aga cgg aga ggc gcg gcc aag gcg ggg ccc tct ggg tgt cgg cgg tgg	1536
	Arg Arg Arg Gly Ala Ala Lys Ala Gly Pro Ser Gly Cys Arg Arg Trp	
	500 505 510	

	ggt caa gcc atc tca aaa tcc aaa ctc agc cga cgc tgg cgt cgc tgg	1584
	Gly Gln Ala Ile Ser Lys Ser Lys Leu Ser Arg Arg Trp Arg Arg Trp	
	515 520 525	
5	aac cga ttc aat cgc aga aga tgt agg gcc gcc gtg aag tct gtc acg	1632
	Asn Arg Phe Asn Arg Arg Arg Cys Arg Ala Ala Val Lys Ser Val Thr	
	530 535 540	
10	ttt tac tgg ctg gtt atc gtc ctg gtg ttt ctg aac acc tta acc att	1680
	Phe Tyr Trp Leu Val Ile Val Leu Val Phe Leu Asn Thr Leu Thr Ile	
	545 550 555 560	
15	tcc tct gag cac tac aat cag cca gat tgg ttg aca cag att caa gat	1728
	Ser Ser Glu His Tyr Asn Gln Pro Asp Trp Leu Thr Gln Ile Gln Asp	
	565 570 575	
20	att gcc aac aaa gtc ctc ttg gct ctg ttc acc tgc gag atg ctg gta	1776
	Ile Ala Asn Lys Val Leu Leu Ala Leu Phe Thr Cys Glu Met Leu Val	
	580 585 590	
25	aaa atg tac agc ttg ggc ctc caa gca tat ttc gtc tct ctt ttc aac	1824
	Lys Met Tyr Ser Leu Gly Leu Gln Ala Tyr Phe Val Ser Leu Phe Asn	
	595 600 605	
30	cgg ttt gat tgc ttc gtg gtg tgt ggt gga atc act gag acg atc ctg	1872
	Arg Phe Asp Cys Phe Val Val Cys Gly Gly Ile Thr Glu Thr Ile Leu	
	610 615 620	
35	gtg gaa ctg gaa atc atg tct ccc ctg ggg atc tct gtg ttt cgg tgt	1920
	Val Glu Leu Glu Ile Met Ser Pro Leu Gly Ile Ser Val Phe Arg Cys	
	625 630 635 640	
40	gtg cgc ctc tta aga atc ttc aaa gtg acc agg cac tgg act tcc ctg	1968
	Val Arg Leu Leu Arg Ile Phe Lys Val Thr Thr Arg His Trp Thr Ser Leu	
	645 650 655	
45	agc aac tta gtg gca tcc tta tta aac tcc atg aag tcc atc gct tcg	2016
	Ser Asn Leu Val Ala Ser Leu Leu Asn Ser Met Lys Ser Ile Ala Ser	
	660 665 670	
50	ctg ttg ctt ctg ctt ttt ctc ttc att atc atc ttt tcc ttg ctt ggg	2064
	Leu Leu Leu Leu Leu Phe Leu Phe Ile Ile Ile Phe Ser Leu Leu Gly	
	675 680 685	
55	atg cag ctg ttt ggc ggc aag ttt aat ttt gat gaa acg caa acc aag	2112
	Met Gln Leu Phe Gly Gly Lys Phe Asn Phe Asp Glu Thr Gln Thr Lys	
	690 695 700	
60	cgg agc acc ttt gac aat ttc cct caa gca ctt ctc aca gtg ttc cag	2160
	Arg Ser Thr Phe Asp Asn Phe Pro Gln Ala Leu Leu Thr Val Phe Gln	
	705 710 715 720	
65	atc ctg aca ggc gaa gac tgg aat gct gtg atg tac gat ggc atc atg	2208
	Ile Leu Thr Gly Glu Asp Trp Asn Ala Val Met Tyr Asp Gly Ile Met	
	725 730 735	
70	gct tac ggg ggc cca tcc tct tca gga atg atc gtc tgc atc tac ttc	2256
	Ala Tyr Gly Gly Pro Ser Ser Ser Gly Met Ile Val Cys Ile Tyr Phe	
	740 745 750	
75	atc atc ctc ttc att tgt ggt aac tat att cta ctg aat gtc ttc ttg	2304
	Ile Ile Leu Phe Ile Cys Gly Asn Tyr Ile Leu Leu Asn Val Phe Leu	
	755 760 765	

	gcc atc gct gta gac aat ttg gct gat gct gaa agt ctg aac act gct	2352
	Ala Ile Ala Val Asp Asn Leu Ala Asp Ala Glu Ser Leu Asn Thr Ala	
	770 775 780	
5	cag aaa gaa gaa gcg gaa gaa aag gag agg aaa aag att gcc aga aaa	2400
	Gln Lys Glu Glu Ala Glu Glu Lys Glu Arg Lys Lys Ile Ala Arg Lys	
	785 790 795 800	
10	gag agc cta gaa aat aaa aag aac aac aaa cca gaa gtc aac cag ata	2448
	Glu Ser Leu Glu Asn Lys Lys Asn Asn Lys Pro Glu Val Asn Gln Ile	
	805 810 815	
15	gcc aac agt gac aac aag gtt aca att gat gac tat aga gaa gag gat	2496
	Ala Asn Ser Asp Asn Lys Val Thr Ile Asp Asp Tyr Arg Glu Glu Asp	
	820 825 830	
20	gaa gac aag gac ccc tat ccg cct tgc gat gtg cca gta ggg gaa gag	2544
	Glu Asp Lys Asp Pro Tyr Pro Pro Cys Asp Val Pro Val Gly Glu Glu	
	835 840 845	
25	gaa gag gaa gag gag gag gat gaa cct gag gtt cct gcc gga ccc cgt	2592
	Glu Glu Glu Glu Glu Glu Asp Glu Pro Glu Val Pro Ala Gly Pro Arg	
	850 855 860	
30	cct cga agg atc tcg gag ttg aac atg aag gaa aaa att gcc ccc atc	2640
	Pro Arg Arg Ile Ser Glu Leu Asn Met Lys Glu Lys Ile Ala Pro Ile	
	865 870 875 880	
35	cct gaa ggg agc gct ttc ttc att ctt agc aag acc aac ccg atc cgc	2688
	Pro Glu Gly Ser Ala Phe Phe Ile Leu Ser Lys Thr Asn Pro Ile Arg	
	885 890 895	
40	gta ggc tgc cac aag ctc atc aac cac cac atc ttc acc aac ctc atc	2736
	Val Gly Cys His Lys Leu Ile Asn His His Ile Phe Thr Asn Leu Ile	
	900 905 910	
45	ctt gtc ttc atc atg ctg agc agc gct gcc ctg gcc gca gag gac ccc	2784
	Leu Val Phe Ile Met Leu Ser Ser Ala Ala Leu Ala Ala Glu Asp Pro	
	915 920 925	
50	atc cgc agc cac tcc ttc cgg aac acg ata ctg ggt tac ttt gac tat	2832
	Ile Arg Ser His Ser Phe Arg Asn Thr Ile Leu Gly Tyr Phe Asp Tyr	
	930 935 940	
55	gcc ttc aca gcc atc ttt act gtt gag atc ctg ttg aag atg aca act	2880
	Ala Phe Thr Ala Ile Phe Thr Val Glu Ile Leu Leu Lys Met Thr Thr	
	945 950 955 960	
60	ttt gga gct ttc ctc cac aaa ggg gcc ttc tgc agg aac tac ttc aat	2928
	Phe Gly Ala Phe Leu His Lys Gly Ala Phe Cys Arg Asn Tyr Phe Asn	
	965 970 975	
65	ttg ctg gat atg ctg gtg gtt ggg gtg tct ctg gtg tca ttt ggg att	2976
	Leu Leu Asp Met Leu Val Val Gly Val Ser Leu Val Ser Phe Gly Ile	
	980 985 990	
70	caa tcc agt gcc atc tcc gtt gtg aag att ctg agg gtc tta agg gtc	3024
	Gln Ser Ser Ala Ile Ser Val Lys Ile Leu Arg Val Leu Arg Val	
	995 1000 1005	
75	ctg cgt ccc ctc agg gcc atc aac aga gca aaa gga ctt aag cac	3069
	Leu Arg Pro Leu Arg Ala Ile Asn Arg Ala Lys Gly Leu Lys His	
	1010 1015 1020	

	gtg gtc cag tgc gtc ttc gtg gcc atc cgg acc atc ggc aac atc	3114
	Val Val Gln Cys Val Phe Val Ala Ile Arg Thr Ile Gly Asn Ile	
	1025 1030 1035	
5	atg atc gtc act acc ctc ctg cag ttc atg ttt gcc tgt atc ggg	3159
	Met Ile Val Thr Thr Leu Leu Gln Phe Met Phe Ala Cys Ile Gly	
	1040 1045 1050	
10	gtc cag ttg ttc aag ggg aag ttc tat cgc tgt acg gat gaa gcc	3204
	Val Gln Leu Phe Lys Gly Lys Phe Tyr Arg Cys Thr Asp Glu Ala	
	1055 1060 1065	
15	aaa agt aac cct gaa gaa tgc agg gga ctt ttc atc ctc tac aag	3249
	Lys Ser Asn Pro Glu Glu Cys Arg Gly Leu Phe Ile Leu Tyr Lys	
	1070 1075 1080	
20	gat ggg gat gtt gac agt cct gtg gtc cgt gaa cgg atc tgg caa	3294
	Asp Gly Asp Val Asp Ser Pro Val Val Arg Glu Arg Ile Trp Gln	
	1085 1090 1095	
25	aac agt gat ttc aac ttc gac aac gtc ctc tct gct atg atg gcg	3339
	Asn Ser Asp Phe Asn Phe Asp Asn Val Leu Ser Ala Met Met Ala	
	1100 1105 1110	
	ctc ttc aca gtc tcc acg ttt gag ggc tgg cct gcg ttg ctg tat	3384
	Leu Phe Thr Val Ser Thr Phe Glu Gly Trp Pro Ala Leu Leu Tyr	
	1115 1120 1125	
30	aaa gcc atc gac tgc aat gga gag aac atc ggc cca atc tac aac	3429
	Lys Ala Ile Asp Ser Asn Gly Glu Asn Ile Gly Pro Ile Tyr Asn	
	1130 1135 1140	
35	cac cgc gtg gag atc tcc atc ttc ttc atc atc tac atc atc att	3474
	His Arg Val Glu Ile Ser Ile Phe Phe Ile Ile Tyr Ile Ile Ile	
	1145 1150 1155	
40	gta gct ttc ttc atg atg aac atc ttt gtg ggc ttt gtc atc gtt	3519
	Val Ala Phe Phe Met Met Asn Ile Phe Val Gly Phe Val Ile Val	
	1160 1165 1170	
45	aca ttt cag gaa caa gga gaa aaa gag tat aag aac tgt gag ctg	3564
	Thr Phe Gln Glu Gln Gly Glu Lys Glu Tyr Lys Asn Cys Glu Leu	
	1175 1180 1185	
	gac aaa aat cag cgt cag tgt gtt gaa tac gcc ttg aaa gca cgt	3609
	Asp Lys Asn Gln Arg Gln Cys Val Glu Tyr Ala Leu Lys Ala Arg	
	1190 1195 1200	
50	ccc ttg cgg aga tac atc ccc aaa aac ccc tac cag tac aag ttc	3654
	Pro Leu Arg Arg Tyr Ile Pro Lys Asn Pro Tyr Gln Tyr Lys Phe	
	1205 1210 1215	
55	tgg tac gtg gtg aac tct tgc cct ttc gaa tac atg atg ttt gtc	3699
	Trp Tyr Val Val Asn Ser Ser Pro Phe Glu Tyr Met Met Phe Val	
	1220 1225 1230	
60	ctc atc atg ctc aac aca ctc tgc ttg gcc atg cag cac tac gag	3744
	Leu Ile Met Leu Asn Thr Leu Cys Leu Ala Met Gln His Tyr Glu	
	1235 1240 1245	
	cag tcc aag atg ttc aat gat gcc atg gac att ctg aac atg gtc	3789
	Gln Ser Lys Met Phe Asn Asp Ala Met Asp Ile Leu Asn Met Val	
	1250 1255 1260	

5	ttc acc ggg gtg ttc acc gtc gag atg gtt ttg aaa gtc atc gca	3834
	Phe Thr Gly Val Phe Thr Val Glu Met Val Leu Lys Val Ile Ala	
	1265 1270 1275	
	ttt aag cct aag ggg tat ttt agt gac gcc tgg aac acg ttt gac	3879
	Phe Lys Pro Lys Gly Tyr Phe Ser Asp Ala Trp Asn Thr Phe Asp	
10	1280 1285 1290	
	tcc ctc atc gta atc ggc agc att ata gac gtg gcc ctc agc gaa	3924
	Ser Leu Ile Val Ile Gly Ser Ile Ile Asp Val Ala Leu Ser Glu	
	1295 1300 1305	
	gcg gac aac tct gaa gag agc aat aga atc tcc atc acc ttt ttc	3969
15	Ala Asp Asn Ser Glu Glu Ser Asn Arg Ile Ser Ile Thr Phe Phe	
	1310 1315 1320	
	cgt ctt ttc cga gtg atg cga ttg gtg aag ctt ctc agc agg ggg	4014
	Arg Leu Phe Arg Val Met Arg Leu Val Lys Leu Leu Ser Arg Gly	
	1325 1330 1335	
20	gaa ggc atc cgg aca ttg ctg tgg act ttt att aag tcc ttt cag	4059
	Glu Gly Ile Arg Thr Leu Leu Trp Thr Phe Ile Lys Ser Phe Gln	
	1340 1345 1350	
	gcg ctc ccg tat gtg gcc ctc ctc ata gcc atg ctg ttc ttc atc	4104
	Ala Leu Pro Tyr Val Ala Leu Leu Ile Ala Met Leu Phe Phe Ile	
25	1355 1360 1365	
	tat gcg gtc att ggc atg cag atg ttt ggg aaa gtt gcc atg aga	4149
	Tyr Ala Val Ile Gly Met Gln Met Phe Gly Lys Val Ala Met Arg	
	1370 1375 1380	
	gat aac aac cag atc aat agg aac aat aac ttc cag acg ttt ccc	4194
30	Asp Asn Asn Gln Ile Asn Arg Asn Asn Asn Phe Gln Thr Phe Pro	
	1385 1390 1395	
	cag gcg gtg ctg ctg ctc ttc agg tgt gca aca ggt gag gcc tgg	4239
	Gln Ala Val Leu Leu Leu Phe Arg Cys Ala Thr Gly Glu Ala Trp	
	1400 1405 1410	
35	cag gag atc atg ctg gcc tgt ctc cca ggg aag ctc tgt gac cct	4284
	Gln Glu Ile Met Leu Ala Cys Leu Pro Gly Lys Leu Cys Asp Pro	
	1415 1420 1425	
	gag tca gat tac aac ccc ggg gag gag tat aca tgt ggg agc aac	4329
	Glu Ser Asp Tyr Asn Pro Gly Glu Glu Tyr Thr Cys Gly Ser Asn	
40	1430 1435 1440	
	ttt gcc att gtc tat ttc atc agt ttt tac atg ctc tgt gca ttt	4374
	Phe Ala Ile Val Tyr Phe Ile Ser Phe Tyr Met Leu Cys Ala Phe	
	1445 1450 1455	
	ctg atc atc aat ctg ttt gtg gct gtc atc atg gat aat ttc gac	4419
45	Leu Ile Ile Asn Leu Phe Val Ala Val Ile Met Asp Asn Phe Asp	
	1460 1465 1470	
	tat ctg acc cgg gac tgg tct att ttg ggg cct cac cat tta gat	4464
	Tyr Leu Thr Arg Asp Trp Ser Ile Leu Gly Pro His His Leu Asp	
	1475 1480 1485	
50	gaa ttc aaa aga ata tgg tca gaa tat gac cct gag gca aag gga	4509
	Glu Phe Lys Arg Ile Trp Ser Glu Tyr Asp Pro Glu Ala Lys Gly	
	1490 1495 1500	

	agg ata aaa cac ctt gat gtg gtc act ctg ctt cga cgc atc cag	4554
	Arg Ile Lys His Leu Asp Val Val Thr Leu Leu Arg Arg Ile Gln	
5	1505 1510 1515	
	cct ccc ctg ggg ttt ggg aag tta tgt cca cac agg gta gcg tgc	4599
	Pro Pro Leu Gly Phe Gly Lys Leu Cys Pro His Arg Val Ala Cys	
	1520 1525 1530	
10	aag aga tta gtt gcc atg aac atg cct ctc aac agt gac ggg aca	4644
	Lys Arg Leu Val Ala Met Asn Met Pro Leu Asn Ser Asp Gly Thr	
	1535 1540 1545	
15	gtc atg ttt aat gca acc ctg ttt gct ttg gtt cga acg gct ctt	4689
	Val Met Phe Asn Ala Thr Leu Phe Ala Leu Val Arg Thr Ala Leu	
	1550 1555 1560	
20	aag atc aag acc gaa ggg aac ctg gag caa gct aat gaa gaa ctt	4734
	Lys Ile Lys Thr Glu Gly Asn Leu Glu Gln Ala Asn Glu Glu Leu	
	1565 1570 1575	
25	cgg gct gtg ata aag aaa att tgg aag aaa acc agc atg aaa tta	4779
	Arg Ala Val Ile Lys Lys Ile Trp Lys Lys Thr Ser Met Lys Leu	
	1580 1585 1590	
	ctt gac caa gtt gtc cct cca gct ggt gat gat gag gta acc gtg	4824
	Leu Asp Gln Val Val Pro Pro Ala Gly Asp Asp Glu Val Thr Val	
	1595 1600 1605	
30	ggg aag ttc tat gcc act ttc ctg ata cag gac tac ttt agg aaa	4869
	Gly Lys Phe Tyr Ala Thr Phe Leu Ile Gln Asp Tyr Phe Arg Lys	
	1610 1615 1620	
35	ttc aag aaa cgg aaa gaa caa gga ctg gtg gga aag tac cct gcg	4914
	Phe Lys Lys Arg Lys Glu Gln Gly Leu Val Gly Lys Tyr Pro Ala	
	1625 1630 1635	
40	aag aac acc aca att gcc cta cag gcg gga tta agg aca ctg cat	4959
	Lys Asn Thr Thr Ile Ala Leu Gln Ala Gly Leu Arg Thr Leu His	
	1640 1645 1650	
45	gac att ggg cca gaa atc cgg cgt gct ata tcg tgt gat ttg caa	5004
	Asp Ile Gly Pro Glu Ile Arg Arg Ala Ile Ser Cys Asp Leu Gln	
	1655 1660 1665	
	gat gac gag cct gag gaa aca aaa cga gaa gaa gaa gat gat gtg	5049
	Asp Asp Glu Pro Glu Glu Thr Lys Arg Glu Glu Glu Asp Asp Val	
	1670 1675 1680	
50	ttc aaa aga aat ggt gcc ctg ctt gga aac cat gtc aat cat gtt	5094
	Phe Lys Arg Asn Gly Ala Leu Leu Gly Asn His Val Asn His Val	
	1685 1690 1695	
55	aat agt gat agg aga gat tcc ctt cag cag acc aat acc acc cac	5139
	Asn Ser Asp Arg Arg Asp Ser Leu Gln Gln Thr Asn Thr Thr His	
	1700 1705 1710	
60	cgt ccc ctg cat gtc caa agg cct tca att cca cct gca agt gat	5184
	Arg Pro Leu His Val Gln Arg Pro Ser Ile Pro Pro Ala Ser Asp	
	1715 1720 1725	
	act gag aaa ccg ctg ttt cct cca gca gga aat tcg gtg tgt cat	5229
	Thr Glu Lys Pro Leu Phe Pro Pro Ala Gly Asn Ser Val Cys His	
	1730 1735 1740	

5	aac cat cat aac cat aat tcc ata gga aag caa gtt ccc acc tca Asn His His Asn His Asn Ser Ile Gly Lys Gln Val Pro Thr Ser 1745 1750 1755	5274
	aca aat gcc aat ctc aat aat gcc aat atg tcc aaa gct gcc cat Thr Asn Ala Asn Leu Asn Asn Ala Asn Met Ser Lys Ala Ala His 1760 1765 1770	5319
	gga aag cgg ccc agc att ggg aac ctt gag cat gtg tct gaa aat Gly Lys Arg Pro Ser Ile Gly Asn Leu Glu His Val Ser Glu Asn 1775 1780 1785	5364
	ggg cat cat tct tcc cac aag cat gac cgg gag cct cag aga agg Gly His His Ser Ser His Lys His Asp Arg Glu Pro Gln Arg Arg 1790 1795 1800	5409
	tcc agt gtg aaa aga acc cgc tat tat gaa act tac att agg tcc Ser Ser Val Lys Arg Thr Arg Tyr Tyr Glu Thr Tyr Ile Arg Ser 1805 1810 1815	5454
25	gac tca gga gat gaa cag ctc cca act att tgc cgg gaa gac cca Asp Ser Gly Asp Glu Gln Leu Pro Thr Ile Cys Arg Glu Asp Pro 1820 1825 1830	5499
	gag ata cat ggc tat ttc agg gac ccc cac tgc ttg ggg gag cag Glu Ile His Gly Tyr Phe Arg Asp Pro His Cys Leu Gly Glu Gln 1835 1840 1845	5544
	gag tat ttc agt agt gag gaa tgc tac gag gat gac agc tcg ccc Glu Tyr Phe Ser Ser Glu Glu Cys Tyr Glu Asp Asp Ser Ser Pro 1850 1855 1860	5589
	acc tgg agc agg caa aac tat ggc tac tac agc aga tac cca ggc Thr Trp Ser Arg Gln Asn Tyr Gly Tyr Tyr Ser Arg Tyr Pro Gly 1865 1870 1875	5634
	aga aac atc gac tct gag agg ccc cga ggc tac cat cat ccc caa Arg Asn Ile Asp Ser Glu Arg Pro Arg Gly Tyr His His Pro Gln 1880 1885 1890	5679
45	gga ttc ttg gag gac gat gac tcg ccc gtt tgc tat gat tca cgg Gly Phe Leu Glu Asp Asp Asp Ser Pro Val Cys Tyr Asp Ser Arg 1895 1900 1905	5724
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	1190 1195 1200	
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	gcc ccc tgc cag tgc ccc agg gtg gag tcc tcc atg cct gag gac	5935
	Ala Pro Cys Gln Cys Pro Arg Val Glu Ser Ser Met Pro Glu Asp	
	1205 1210 1215	
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	aga aag agc tcc aca cca ggg tct ctt cat gag gag aca ccc cac	5980
	Arg Lys Ser Ser Thr Pro Gly Ser Leu His Glu Glu Thr Pro His	
	1220 1225 1230	
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	agc agg agc acc agg gag aat act tcc agg tgc tca gca cca gct	6025
	Ser Arg Ser Ser Thr Arg Glu Asn Thr Ser Arg Cys Ser Ala Pro Ala	
	1235 1240 1245	
20		
	aca gcc ctg ctg atc caa aag gct ctg gtt cga ggg ggc ctg ggc	6070
	Thr Ala Leu Leu Ile Gln Lys Ala Leu Val Arg Gly Gly Leu Gly	
	1250 1255 1260	
25		
	acc ttg gca gct gat gca aac ttc atc atg gca aca ggc cag gcc	6115
	Thr Leu Ala Ala Asp Ala Asn Phe Ile Met Ala Thr Gly Gln Ala	
	1265 1270 1275	
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	ctg gca gat gcc tgc caa atg gaa cca gag gaa gtg gag atc atg	6160
	Leu Ala Asp Ala Cys Gln Met Glu Pro Glu Glu Val Glu Ile Met	
	1280 1285 1290	
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	gca aca gag cta ctg aaa gga cga gag gcc cca gag ggc atg gcc	6205
	Ala Thr Glu Leu Leu Lys Gly Arg Glu Ala Pro Glu Gly Met Ala	
	1295 1300 1305	
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	agc tcc ctg gga tgc ctg aac ctc ggg tcc tcc ctg ggc agc ctc	6250
	Ser Ser Leu Gly Cys Leu Asn Leu Gly Ser Ser Leu Gly Ser Leu	
	1310 1315 1320	
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	gac caa cac cag ggc tcc cag gag acc ctt att cct cca agg ctg	6295
	Asp Gln His Gln Gly Ser Gln Glu Thr Leu Ile Pro Pro Arg Leu	
	1325 1330 1335	
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	tga tgccacaca gcatcagcat gggcttagag ctggcatgac caatgggggt	6348
	ggggaagttg ctgggggtgga gaagggttag cccaccgcag cagcctccct ccctctcagc	6408
	agctagatgc atggcctgag gcaggggtggt caggaaccac ctcaaaaagt gcggaggaag	6468
	tagctggaca ggccctgccc ctcaccagca agaggcatga ttggatggag cttctaattgt	6528
	cattcaaaaa ggcttggtca gtgcctgtct ggcctagggc cactcccacc tgcaggacat	6588
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	<222> (36)..(36)	
	<223> The 'Xaa' at location 36 stands for Lys, Arg, Thr, or Ile.	

<220>
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 <222> (40)..(40)
 5 <223> The 'Xaa' at location 40 stands for Leu, or Phe.

 <220>
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 <222> (232)..(232)
 10 <223> The 'Xaa' at location 232 stands for Arg, or Ser.

 <220>
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 <222> (233)..(233)
 15 <223> The 'Xaa' at location 233 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 20 <223> The 'Xaa' at location 234 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 25 <223> The 'Xaa' at location 235 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
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 35 <223> The 'Xaa' at location 236 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 40 <223> The 'Xaa' at location 237 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.
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 Cys, or Phe.

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 55 <223> The 'Xaa' at location 239 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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Cys, or Phe.

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<223> The 'Xaa' at location 241 stands for Lys, Asn, Arg, Ser, Thr,
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Cys, or Phe.

10 <220>
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<223> The 'Xaa' at location 242 stands for Lys, Asn, Arg, Ser, Thr,
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20 <223> The 'Xaa' at location 243 stands for Lys, Asn, Arg, Ser, Thr,
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Cys, or Phe.

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<223> The 'Xaa' at location 244 stands for Lys, Asn, Arg, Ser, Thr,
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Cys, or Phe.

30 <220>
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35 <223> The 'Xaa' at location 245 stands for Lys, Asn, Arg, Ser, Thr,
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Cys, or Phe.

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<223> The 'Xaa' at location 246 stands for Lys, Asn, Arg, Ser, Thr,
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Cys, or Phe.

45 <220>
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<222> (247)..(247)
<223> The 'Xaa' at location 247 stands for Lys, Asn, Arg, Ser, Thr,
Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
50 Cys, or Phe.

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55 <223> The 'Xaa' at location 248 stands for Lys, Asn, Arg, Ser, Thr,
Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
Cys, or Phe.

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<223> The 'Xaa' at location 249 stands for Lys, Asn, Arg, Ser, Thr,
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Cys, or Phe.

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 Cys, or Phe.

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 Cys, or Phe.

30 <220>
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 <223> The 'Xaa' at location 254 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 35 Cys, or Phe.

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 40 <223> The 'Xaa' at location 255 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

<220>
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 <223> The 'Xaa' at location 256 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

50 <220>
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 <223> The 'Xaa' at location 257 stands for Lys, Asn, Arg, Ser, Thr,
 55 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 <223> The 'Xaa' at location 258 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 5 <223> The 'Xaa' at location 259 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
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 <223> The 'Xaa' at location 260 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 20 <223> The 'Xaa' at location 261 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
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 <223> The 'Xaa' at location 262 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 35 Cys, or Phe.

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 40 <223> The 'Xaa' at location 264 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 <223> The 'Xaa' at location 265 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 Cys, or Phe.

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 Cys, or Phe.

<220>
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 5 <223> The 'Xaa' at location 268 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

<220>
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 10 <223> The 'Xaa' at location 269 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

<220>
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 Cys, or Phe.

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 <222> (271)..(271)
 25 <223> The 'Xaa' at location 271 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

<220>
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 30 <223> The 'Xaa' at location 272 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 40 <223> The 'Xaa' at location 273 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 45 <223> The 'Xaa' at location 274 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 20 <223> The 'Xaa' at location 279 stands for Lys, Asn, Arg, Ser, Thr,
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30 <220>
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 35 Cys, or Phe.

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 40 <223> The 'Xaa' at location 282 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 55 <223> The 'Xaa' at location 284 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 <223> The 'Xaa' at location 285 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 5 <223> The 'Xaa' at location 286 stands for Lys, Asn, Arg, Ser, Thr,
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 <223> The 'Xaa' at location 287 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 40 <223> The 'Xaa' at location 291 stands for Lys, Asn, Arg, Ser, Thr,
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 <223> The 'Xaa' at location 292 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 <223> The 'Xaa' at location 293 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 Cys, or Phe.

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 Cys, or Phe.

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 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 Cys, or Phe.

30 <220>
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 Cys, or Phe.

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 <222> (302)..(302)
 <223> The 'Xaa' at location 302 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

<220>
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 <223> The 'Xaa' at location 303 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 5 <223> The 'Xaa' at location 304 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 <223> The 'Xaa' at location 305 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

15 <220>
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 20 <223> The 'Xaa' at location 306 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

30 <220>
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 35 Cys, or Phe.

<220>
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 40 <223> The 'Xaa' at location 309 stands for Lys, Asn, Arg, Ser, Thr,
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 45 <221> misc_feature
 <222> (310)..(310)
 <223> The 'Xaa' at location 310 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

50 <220>
 <221> misc_feature
 <222> (311)..(311)
 <223> The 'Xaa' at location 311 stands for Lys, Asn, Arg, Ser, Thr,
 55 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 60 <222> (312)..(312)
 <223> The 'Xaa' at location 312 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (313)..(313)
 5 <223> The 'Xaa' at location 313 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 10 <221> misc_feature
 <222> (314)..(314)
 <223> The 'Xaa' at location 314 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

15
 <220>
 <221> misc_feature
 <222> (315)..(315)
 20 <223> The 'Xaa' at location 315 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 25 <221> misc_feature
 <222> (316)..(316)
 <223> The 'Xaa' at location 316 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

30 <220>
 <221> misc_feature
 <222> (317)..(317)
 <223> The 'Xaa' at location 317 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 35 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (318)..(318)
 40 <223> The 'Xaa' at location 318 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 45 <221> misc_feature
 <222> (319)..(319)
 <223> The 'Xaa' at location 319 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

50
 <220>
 <221> misc_feature
 <222> (320)..(320)
 55 <223> The 'Xaa' at location 320 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 60 <221> misc_feature
 <222> (321)..(321)
 <223> The 'Xaa' at location 321 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (322)..(322)
 5 <223> The 'Xaa' at location 322 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 10 <221> misc_feature
 <222> (323)..(323)
 <223> The 'Xaa' at location 323 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

15
 <220>
 <221> misc_feature
 <222> (324)..(324)
 20 <223> The 'Xaa' at location 324 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 25 <221> misc_feature
 <222> (325)..(325)
 <223> The 'Xaa' at location 325 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

30 <220>
 <221> misc_feature
 <222> (326)..(326)
 <223> The 'Xaa' at location 326 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 35 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (327)..(327)
 40 <223> The 'Xaa' at location 327 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 45 <221> misc_feature
 <222> (328)..(328)
 <223> The 'Xaa' at location 328 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

50
 <220>
 <221> misc_feature
 <222> (329)..(329)
 55 <223> The 'Xaa' at location 329 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 60 <221> misc_feature
 <222> (330)..(330)
 <223> The 'Xaa' at location 330 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (331)..(331)
 5 <223> The 'Xaa' at location 331 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1076)..(1076)
 10 <223> The 'Xaa' at location 1076 stands for Gln, His, Arg, Pro, or Leu.

<220>
 <221> misc_feature
 <222> (1077)..(1077)
 15 <223> The 'Xaa' at location 1077 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

20
 <220>
 <221> misc_feature
 <222> (1078)..(1078)
 <223> The 'Xaa' at location 1078 stands for Lys, Asn, Arg, Ser, Thr,
 25 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1079)..(1079)
 30 <223> The 'Xaa' at location 1079 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

35 <220>
 <221> misc_feature
 <222> (1080)..(1080)
 <223> The 'Xaa' at location 1080 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 40 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1081)..(1081)
 45 <223> The 'Xaa' at location 1081 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1082)..(1082)
 50 <223> The 'Xaa' at location 1082 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

55
 <220>
 <221> misc_feature
 <222> (1083)..(1083)
 <223> The 'Xaa' at location 1083 stands for Lys, Asn, Arg, Ser, Thr,
 60 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature

<222> (1084)..(1084)
 <223> The 'Xaa' at location 1084 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 5
 <220>
 <221> misc_feature
 <222> (1085)..(1085)
 <223> The 'Xaa' at location 1085 stands for Lys, Asn, Arg, Ser, Thr,
 10 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 <220>
 <221> misc_feature
 15 <222> (1086)..(1086)
 <223> The 'Xaa' at location 1086 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 20 <220>
 <221> misc_feature
 <222> (1087)..(1087)
 <223> The 'Xaa' at location 1087 stands for Lys, Asn, Arg, Ser, Thr,
 25 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 <220>
 <221> misc_feature
 <222> (1088)..(1088)
 30 <223> The 'Xaa' at location 1088 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 <220>
 <221> misc_feature
 35 <222> (1089)..(1089)
 <223> The 'Xaa' at location 1089 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 40 <220>
 <221> misc_feature
 <222> (1090)..(1090)
 <223> The 'Xaa' at location 1090 stands for Lys, Asn, Arg, Ser, Thr,
 45 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 <220>
 <221> misc_feature
 50 <222> (1091)..(1091)
 <223> The 'Xaa' at location 1091 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 55 <220>
 <221> misc_feature
 <222> (1092)..(1092)
 <223> The 'Xaa' at location 1092 stands for Lys, Asn, Arg, Ser, Thr,
 60 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.
 <220>
 <221> misc_feature
 <222> (1093)..(1093)

<223> The 'Xaa' at location 1093 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

5 <220>
 <221> misc_feature
 <222> (1094)..(1094)
 <223> The 'Xaa' at location 1094 stands for Lys, Asn, Arg, Ser, Thr,
 10 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

 <220>
 <221> misc_feature
 <222> (1095)..(1095)
 15 <223> The 'Xaa' at location 1095 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

 <220>
 <221> misc_feature
 <222> (1096)..(1096)
 20 <223> The 'Xaa' at location 1096 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

25 <220>
 <221> misc_feature
 <222> (1097)..(1097)
 <223> The 'Xaa' at location 1097 stands for Lys, Asn, Arg, Ser, Thr,
 30 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

 <220>
 <221> misc_feature
 <222> (1098)..(1098)
 35 <223> The 'Xaa' at location 1098 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

40 <220>
 <221> misc_feature
 <222> (1099)..(1099)
 <223> The 'Xaa' at location 1099 stands for Lys, Asn, Arg, Ser, Thr,
 45 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

 <220>
 <221> misc_feature
 <222> (1100)..(1100)
 50 <223> The 'Xaa' at location 1100 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

 <220>
 <221> misc_feature
 <222> (1101)..(1101)
 55 <223> The 'Xaa' at location 1101 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

60 <220>
 <221> misc_feature
 <222> (1102)..(1102)
 <223> The 'Xaa' at location 1102 stands for Lys, Asn, Arg, Ser, Thr,

Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

5 <220>
 <221> misc_feature
 <222> (1103)..(1103)
 <223> The 'Xaa' at location 1103 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

10 <220>
 <221> misc_feature
 <222> (1104)..(1104)
 <223> The 'Xaa' at location 1104 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

15 <220>
 <221> misc_feature
 <222> (1105)..(1105)
 <223> The 'Xaa' at location 1105 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

20 <220>
 <221> misc_feature
 <222> (1106)..(1106)
 <223> The 'Xaa' at location 1106 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

25 <220>
 <221> misc_feature
 <222> (1107)..(1107)
 <223> The 'Xaa' at location 1107 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

30 <220>
 <221> misc_feature
 <222> (1108)..(1108)
 <223> The 'Xaa' at location 1108 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

35 <220>
 <221> misc_feature
 <222> (1109)..(1109)
 <223> The 'Xaa' at location 1109 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

40 <220>
 <221> misc_feature
 <222> (1110)..(1110)
 <223> The 'Xaa' at location 1110 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

45 <220>
 <221> misc_feature
 <222> (1111)..(1111)
 <223> The 'Xaa' at location 1111 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

50 <220>
 <221> misc_feature
 <222> (1112)..(1112)
 <223> The 'Xaa' at location 1112 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

55 <220>
 <221> misc_feature
 <222> (1113)..(1113)
 <223> The 'Xaa' at location 1113 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

60 <220>
 <221> misc_feature
 <222> (1114)..(1114)
 <223> The 'Xaa' at location 1114 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

Cys, or Phe.

5 <220>
 <221> misc_feature
 <222> (1112)..(1112)
 <223> The 'Xaa' at location 1112 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

10 <220>
 <221> misc_feature
 <222> (1113)..(1113)
 <223> The 'Xaa' at location 1113 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

15 <220>
 <221> misc_feature
 <222> (1114)..(1114)
 <223> The 'Xaa' at location 1114 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

20 <220>
 <221> misc_feature
 <222> (1115)..(1115)
 <223> The 'Xaa' at location 1115 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

25 <220>
 <221> misc_feature
 <222> (1116)..(1116)
 <223> The 'Xaa' at location 1116 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

30 <220>
 <221> misc_feature
 <222> (1117)..(1117)
 <223> The 'Xaa' at location 1117 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

35 <220>
 <221> misc_feature
 <222> (1118)..(1118)
 <223> The 'Xaa' at location 1118 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

40 <220>
 <221> misc_feature
 <222> (1119)..(1119)
 <223> The 'Xaa' at location 1119 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

45 <220>
 <221> misc_feature
 <222> (1120)..(1120)
 <223> The 'Xaa' at location 1120 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

50 <220>
 <221> misc_feature
 <222> (1121)..(1121)
 <223> The 'Xaa' at location 1121 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

55 <220>
 <221> misc_feature
 <222> (1122)..(1122)
 <223> The 'Xaa' at location 1122 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

60 <220>
 <221> misc_feature
 <222> (1123)..(1123)
 <223> The 'Xaa' at location 1123 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1121)..(1121)
 5 <223> The 'Xaa' at location 1121 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 10 <221> misc_feature
 <222> (1122)..(1122)
 <223> The 'Xaa' at location 1122 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

15
 <220>
 <221> misc_feature
 <222> (1123)..(1123)
 20 <223> The 'Xaa' at location 1123 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 25 <221> misc_feature
 <222> (1124)..(1124)
 <223> The 'Xaa' at location 1124 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

30 <220>
 <221> misc_feature
 <222> (1125)..(1125)
 <223> The 'Xaa' at location 1125 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 35 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1126)..(1126)
 40 <223> The 'Xaa' at location 1126 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 45 <221> misc_feature
 <222> (1127)..(1127)
 <223> The 'Xaa' at location 1127 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

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 <220>
 <221> misc_feature
 <222> (1128)..(1128)
 55 <223> The 'Xaa' at location 1128 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 60 <221> misc_feature
 <222> (1129)..(1129)
 <223> The 'Xaa' at location 1129 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1130)..(1130)
 5 <223> The 'Xaa' at location 1130 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 10 <221> misc_feature
 <222> (1131)..(1131)
 <223> The 'Xaa' at location 1131 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

15
 <220>
 <221> misc_feature
 <222> (1132)..(1132)
 20 <223> The 'Xaa' at location 1132 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 25 <221> misc_feature
 <222> (1133)..(1133)
 <223> The 'Xaa' at location 1133 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

30 <220>
 <221> misc_feature
 <222> (1134)..(1134)
 <223> The 'Xaa' at location 1134 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 35 Cys, or Phe.

<220>
 <221> misc_feature
 <222> (1135)..(1135)
 40 <223> The 'Xaa' at location 1135 stands for Lys, Asn, Arg, Ser, Thr,
 Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
 Cys, or Phe.

<220>
 45 <221> misc_feature
 <222> (1136)..(1136)
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 Cys, or Phe.

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 20 <223> The 'Xaa' at location 1159 stands for Lys, Asn, Arg, Ser, Thr,
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 55 <223> The 'Xaa' at location 1164 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 5 <223> The 'Xaa' at location 1166 stands for Lys, Asn, Arg, Ser, Thr,
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 10 <223> The 'Xaa' at location 1167 stands for Lys, Asn, Arg, Ser, Thr,
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 15 <223> The 'Xaa' at location 1168 stands for Lys, Asn, Arg, Ser, Thr,
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 20 <223> The 'Xaa' at location 1169 stands for Lys, Asn, Arg, Ser, Thr,
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 25 <223> The 'Xaa' at location 1170 stands for Lys, Asn, Arg, Ser, Thr,
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 30 <223> The 'Xaa' at location 1171 stands for Lys, Asn, Arg, Ser, Thr,
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 35 <223> The 'Xaa' at location 1172 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 40 <223> The 'Xaa' at location 1173 stands for Lys, Asn, Arg, Ser, Thr,
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 45 <223> The 'Xaa' at location 1174 stands for Lys, Asn, Arg, Ser, Thr,
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 50 <223> The 'Xaa' at location 1175 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 55 <223> The 'Xaa' at location 1176 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 60 <223> The 'Xaa' at location 1177 stands for Lys, Asn, Arg, Ser, Thr,
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25 Leu Lys Glu Lys Ala Val Pro Ile Pro Glu Ala Ser Ser Phe Phe Ile
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    Phe Ser Pro Thr Asn Lys Ile Arg Val Leu Cys His Arg Ile Val Asn
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    Ala Thr Trp Phe Thr Asn Phe Ile Leu Leu Phe Ile Leu Leu Ser Ser
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35 Ala Ala Leu Ala Ala Glu Asp Pro Ile Arg Ala Asp Ser Met Arg Asn
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    Gln Ile Leu Lys His Phe Asp Ile Gly Phe Thr Ser Val Phe Thr Val
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40 Glu Ile Val Leu Lys Met Thr Thr Tyr Gly Ala Phe Leu His Lys Gly
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    Ser Phe Cys Arg Asn Tyr Phe Asn Met Leu Asp Leu Leu Val Val Ala
    180         185         190

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50 Lys Ile Leu Arg Val Leu Arg Val Leu Arg Pro Leu Arg Ala Ile Asn
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    Arg Ala Lys Gly Leu Lys Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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55 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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    Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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60 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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	Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	290	295	300
5	Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	305	310	315 320
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15	Arg Glu Trp Val His Ser Asp Phe His Phe Asp Asn Val Leu Ser Ala	355	360	365
	Met Met Ser Leu Phe Thr Val Ser Thr Phe Glu Gly Trp Pro Gln Leu	370	375	380
20	Leu Tyr Lys Ala Ile Asp Ser Asn Ala Glu Asp Val Gly Pro Ile Tyr	385	390	395 400
25	Asn Asn Arg Val Glu Met Ala Ile Phe Phe Ile Ile Tyr Ile Ile Leu	405	410	415
	Ile Ala Phe Phe Met Met Asn Ile Phe Val Gly Phe Val Ile Val Thr	420	425	430
30	Phe Gln Glu Gln Gly Glu Thr Glu Tyr Lys Asn Cys Glu Leu Asp Lys	435	440	445
	Asn Gln Arg Gln Cys Val Gln Tyr Ala Leu Lys Ala Arg Pro Leu Arg	450	455	460
35	Cys Tyr Ile Pro Lys Asn Pro Tyr Gln Tyr Gln Val Trp Tyr Ile Val	465	470	475 480
40	Thr Ser Ser Tyr Phe Glu Tyr Leu Met Phe Ala Leu Ile Met Leu Asn	485	490	495
	Thr Ile Cys Leu Gly Met Gln His Tyr Asn Gln Ser Glu Gln Met Asn	500	505	510
45	His Ile Ser Asp Ile Leu Asn Val Ala Phe Thr Ile Ile Phe Thr Leu	515	520	525
	Glu Met Ile Leu Lys Leu Met Ala Phe Lys Ala Arg Gly Tyr Phe Gly	530	535	540
50	Asp Pro Trp Asn Val Phe Asp Phe Leu Ile Val Ile Gly Ser Ile Ile	545	550	555 560
55	Asp Val Ile Leu Ser Glu Ile Asp Thr Phe Leu Ala Ser Ser Gly Gly	565	570	575
	Leu Tyr Cys Leu Gly Gly Gly Cys Gly Asn Val Asp Pro Asp Glu Ser	580	585	590
60	Ala Arg Ile Ser Ser Ala Phe Phe Arg Leu Phe Arg Val Met Arg Leu	595	600	605
	Ile Lys Leu Leu Ser Arg Ala Glu Gly Val Arg Thr Leu Leu Trp Thr	610	615	620

	Phe	Ile	Lys	Ser	Phe	Gln	Ala	Leu	Pro	Tyr	Val	Ala	Leu	Leu	Ile	Val	625	630	635	640
5	Met	Leu	Phe	Phe	Ile	Tyr	Ala	Val	Ile	Gly	Met	Gln	Met	Phe	Gly	Lys	645	650	655	
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10	Thr	Phe	Pro	Gln	Ala	Val	Leu	Leu	Leu	Phe	Arg	Cys	Ala	Thr	Gly	Glu	675	680	685	
15	Ala	Trp	Gln	Glu	Ile	Leu	Leu	Ala	Cys	Ser	Tyr	Gly	Lys	Leu	Cys	Asp	690	695	700	
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20	Phe	Ala	Tyr	Tyr	Tyr	Phe	Ile	Ser	Phe	Tyr	Met	Leu	Cys	Ala	Phe	Leu	725	730	735	
25	Val	Ile	Asn	Leu	Phe	Val	Ala	Val	Ile	Met	Asp	Asn	Phe	Asp	Tyr	Leu	740	745	750	
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35	Gly	Lys	Phe	Cys	Pro	His	Arg	Val	Ala	Cys	Lys	Arg	Leu	Val	Gly	Met	805	810	815	
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45	Glu	Gln	Ala	Asn	Glu	Glu	Leu	Arg	Ala	Ile	Ile	Lys	Lys	Ile	Trp	Lys	850	855	860	
	Arg	Thr	Ser	Met	Lys	Leu	Leu	Asp	Gln	Val	Ile	Pro	Pro	Ile	Gly	Asp	865	870	875	880
50	Asp	Glu	Val	Thr	Val	Gly	Lys	Phe	Tyr	Ala	Thr	Phe	Leu	Ile	Gln	Glu	885	890	895	
55	His	Phe	Arg	Lys	Phe	Met	Lys	Arg	Gln	Glu	Glu	Tyr	Tyr	Gly	Tyr	Arg	900	905	910	
	Pro	Lys	Lys	Asp	Ile	Val	Gln	Ile	Gln	Ala	Gly	Leu	Arg	Thr	Ile	Glu	915	920	925	
60	Glu	Glu	Ala	Ala	Pro	Glu	Ile	Cys	Arg	Thr	Val	Ser	Gly	Asp	Leu	Ala	930	935	940	
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	85						90						95						100	
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					185					190					195					
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	Phe	His	Ile	Ala	Leu	Leu	Val	Leu	Phe	Met	Val	Ile	Ile	Tyr	Ala	Ile				
				200					205					210						
40	atc	ggg	ctg	gag	ctc	ttc	aag	ggc	aag	atg	cac	aag	acc	tgc	tac	ttc	909			
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			215				220						225							
45	att	ggg	aca	gat	atc	gtg	gcc	acg	gtg	gag	aat	gaa	gag	cca	tcg	ccc	957			
	Ile	Gly	Thr	Asp	Ile	Val	Ala	Thr	Val	Glu	Asn	Glu	Glu	Pro	Ser	Pro				
		230					235					240								
50	tgc	gcc	agg	acg	ggc	tca	ggg	cgc	cgg	tgc	acc	atc	aat	ggc	agt	gag	1005			
	Cys	Ala	Arg	Thr	Gly	Ser	Gly	Arg	Arg	Cys	Thr	Ile	Asn	Gly	Ser	Glu				
	245					250					255					260				
55	tgc	cgg	ggc	ggc	tgc	cca	ggg	ccc	aac	cat	ggc	atc	acc	cac	ttc	gac	1053			
	Cys	Arg	Gly	Gly	Cys	Pro	Gly	Pro	Asn	His	Gly	Ile	Thr	His	Phe	Asp				
				265						270					275					
60	aac	ttc	ggc	ttc	tcc	atg	ctc	acc	gtg	tac	cag	tgc	att	acc	atg	gag	1101			
	Asn	Phe	Gly	Phe	Ser	Met	Leu	Thr	Val	Tyr	Gln	Cys	Ile	Thr	Met	Glu				
				280					285					290						
65	gga	tgg	act	gac	gtc	ctt	tac	tgg	gtc	aat	gat	gcc	atc	ggg	aat	gag	1149			
	G																			

		345		350		355											
5	cag	caa	cta	gat	gag	gac	ctt	cgg	ggc	tac	atg	agc	tgg	atc	acg	cag	1341
	Gln	Gln	Leu	Asp	Glu	Asp	Leu	Arg	Gly	Tyr	Met	Ser	Trp	Ile	Thr	Gln	
			360						365					370			
10	ggc	gag	gtc	atg	gat	gtt	gag	gac	ttc	aga	gaa	gga	aaa	ctg	tct	ttg	1389
	Gly	Glu	Val	Met	Asp	Val	Glu	Asp	Phe	Arg	Glu	Gly	Lys	Leu	Ser	Leu	
			375					380					385				
15	gat	gaa	ggc	ggc	tct	gac	aca	gag	agc	ctg	tat	gaa	att	gca	ggc	ttg	1437
	Asp	Glu	Gly	Gly	Ser	Asp	Thr	Glu	Ser	Leu	Tyr	Glu	Ile	Ala	Gly	Leu	
			390				395					400					
20	aac	aaa	atc	atc	cag	ttc	atc	cga	cat	tgg	agg	cag	tgg	aac	cgc	atc	1485
	Asn	Lys	Ile	Ile	Gln	Phe	Ile	Arg	His	Trp	Arg	Gln	Trp	Asn	Arg	Ile	
	405					410					415					420	
25	ttt	cgc	tgg	aag	tgc	cat	gac	atc	gtg	aag	tcc	aag	gtc	ttc	tat	tgg	1533
	Phe	Arg	Trp	Lys	Cys	His	Asp	Ile	Val	Lys	Ser	Lys	Val	Phe	Tyr	Trp	
					425					430					435		
30	ctg	gtg	att	ctc	atc	gtt	gcc	ctc	aac	acc	ctg	tct	atc	gcc	tca	gag	1581
	Leu	Val	Ile	Leu	Ile	Val	Ala	Leu	Asn	Thr	Leu	Ser	Ile	Ala	Ser	Glu	
				440				445						450			
35	cac	cac	aac	cag	ccg	cac	tgg	ctg	acc	cgt	ttg	caa	gac	att	gcc	aac	1629
	His	His	Asn	Gln	Pro	His	Trp	Leu	Thr	Arg	Leu	Gln	Asp	Ile	Ala	Asn	
			455					460					465				
40	cgg	gtg	ctg	ctg	tcc	ctc	ttc	acc	act	gag	atg	ctg	atg	aag	atg	tac	1677
	Arg	Val	Leu	Leu	Ser	Leu	Phe	Thr	Thr	Glu	Met	Leu	Met	Lys	Met	Tyr	
			470				475					480					
45	ggg	ctg	ggc	ctg	cgc	cag	tac	ttc	atg	tct	atc	ttc	aac	cgc	ttc	gac	1725
	Gly	Leu	Gly	Leu	Arg	Gln	Tyr	Phe	Met	Ser	Ile	Phe	Asn	Arg	Phe	Asp	
	485					490					495					500	
50	tgc	ttc	gtg	gtg	tgc	agc	ggc	atc	ctg	gag	atc	ctg	ctg	gtg	gag	tcg	1773
	Cys	Phe	Val	Val	Cys	Ser	Gly	Ile	Leu	Glu	Ile	Leu	Leu	Val	Glu	Ser	
					505					510					515		
55	ggc	gcc	atg	aca	ccc	ctg	ggc	atc	tcc	gtg	ctc	cgc	tgc	atc	cgc	ctc	1821
	Gly	Ala	Met	Thr	Pro	Leu	Gly	Ile	Ser	Val	Leu	Arg	Cys	Ile	Arg	Leu	
				520					525					530			
60	ctg	agg	atc	ttc	aag	atc	acc	aaa	tat	tgg	acg	tcg	ctg	agc	aac	ctg	1869
	Leu	Arg	Ile	Phe	Lys	Ile	Thr	Lys	Tyr	Trp	Thr	Ser	Leu	Ser	Asn	Leu	
			535					540					545				
65	gtg	gca	tcc	ctg	ctc	aac	tcc	atc	cgc	tcc	atc	gcc	tcc	ctg	ctg	ctg	1917
	Val	Ala	Ser	Leu	Leu	Asn	Ser	Ile	Arg	Ser	Ile	Ala	Ser	Leu	Leu	Leu	
			550				555					560					
70	ctg	ctc	ttc	ctc	ttc	atc	gtc	atc	ttc	cgc	ctc	ctg	ggc	atg	cag	ctc	1965
	Leu	Leu	Phe	Leu	Phe	Ile	Val	Ile	Phe	Arg	Leu	Leu	Gly	Met	Gln	Leu	
	565					570					575					580	
75	ttt	ggg	ggg	agg	tat	gac	ttt	gaa	gac	aca	gaa	gta	cgg	cgc	agc	aac	2013
	Phe	Gly	Gly	Arg	Tyr	Asp	Phe	Glu	Asp	Thr	Glu	Val	Arg	Arg	Ser	Asn	
					585					590					595		
80	ttt	gac	aac	ttt	ccc	caa	gcc	ctc	atc	agc	gtc	ttc	cag	gta	ctg	aca	2061
	Phe	Asp	Asn	Phe	Pro	Gln	Ala	Leu	Ile	Ser	Val	Phe	Gln	Val	Leu	Thr	

	600	605	610	
5	ggg gaa gac tgg acc tca atg atg tac aat ggg atc atg gcc tcg agc Gly Glu Asp Trp Thr Ser Met Met Tyr Asn Gly Ile Met Ala Ser Ser 615 620 625			2109
10	ggg ccg tcc tac cct ggc atg ctt gtg tgc att tac ttc atc atc ctt Gly Pro Ser Tyr Pro Gly Met Leu Val Cys Ile Tyr Phe Ile Ile Leu 630 635 640			2157
15	ttc gtc tgt ggc aac tac atc ctg ctc aat gtc ttc ctg gcc att gcc Phe Val Cys Gly Asn Tyr Ile Leu Leu Asn Val Phe Leu Ala Ile Ala 645 650 655 660			2205
20	gtg gac aac ctg gcc gag gcg gag agc ctg act tct gcc cag aag gcc Val Asp Asn Leu Ala Glu Ala Glu Ser Leu Thr Ser Ala Gln Lys Ala 665 670 675			2253
25	aag gct gag gag aaa aaa cgc agg aag atg tcc aag ggt ctc cca gac Lys Ala Glu Lys Lys Arg Arg Lys Met Ser Lys Gly Leu Pro Asp 680 685 690			2301
30	aag tca gaa gag gag aag tca acg atg gcc aag aag ctg gag cag aaa Lys Ser Glu Glu Glu Lys Ser Thr Met Ala Lys Lys Leu Glu Gln Lys 695 700 705			2349
35	ccc aag ggt gag ggc atc ccc acc act gcc aag ctg aaa atc gat gag Pro Lys Gly Glu Gly Ile Pro Thr Thr Ala Lys Leu Lys Ile Asp Glu 710 715 720			2397
40	ttt gaa tct aat gtc aat gag gtg aag gat ccc tac ccc tca gcc gac Phe Glu Ser Asn Val Asn Glu Val Lys Asp Pro Tyr Pro Ser Ala Asp 725 730 735 740			2445
45	ttc cca ggg gat gac gag gaa gat gag cct gag atc ccg ctg agc ccc Phe Pro Gly Asp Asp Glu Glu Asp Glu Pro Glu Ile Pro Leu Ser Pro 745 750 755			2493
50	cga cca cgt ccc ctg gct gag ctg cag ctg aaa gag aag gcc gtg ccc Arg Pro Arg Pro Leu Ala Glu Leu Gln Leu Lys Glu Lys Ala Val Pro 760 765 770			2541
55	att cca gaa gcc agc tcc ttc ttc atc ttc agc ccc acc aat aag atc Ile Pro Glu Ala Ser Ser Phe Phe Ile Phe Ser Pro Thr Asn Lys Ile 775 780 785			2589
60	cgt gtc ctg tgt cac cgc atc gtc aat gcc acc tgg ttc acc aac ttc Arg Val Leu Cys His Arg Ile Val Asn Ala Thr Trp Phe Thr Asn Phe 790 795 800			2637
65	atc ctg ctc ttc atc ctg ctc agc agc gct gca ctg gct gcg gaa gac Ile Leu Leu Phe Ile Leu Leu Ser Ser Ala Ala Leu Ala Ala Glu Asp 805 810 815 820			2685
70	ccc atc cgg gct gat tcc atg aga aat cag atc ctt aaa cac ttt gac Pro Ile Arg Ala Asp Ser Met Arg Asn Gln Ile Leu Lys His Phe Asp 825 830 835			2733
75	atc ggg ttc acc tct gtc ttc act gtg gag att gtc ctc aag atg acg Ile Gly Phe Thr Ser Val Phe Thr Val Glu Ile Val Leu Lys Met Thr 840 845 850			2781
80	acc tac gga gcc ttc ctg cac aag ggt tcc ttc tgc cgc aat tac ttc Thr Tyr Gly Ala Phe Leu His Lys Gly Ser Phe Cys Arg Asn Tyr Phe 855 860 865 870			2829

	855		860		865		
	aac atg ctg gac ctg ctg gtg gtg gcc gtg tcc ctc atc tcc atg gga	2877					
5	Asn Met Leu Asp Leu Leu Val Val Ala Val Ser Leu Ile Ser Met Gly						
	870	875	880				
	ctt gag tcc agt gcc atc tcc gtg gtg aag atc ctg agg gtg ctg agg	2925					
10	Leu Glu Ser Ser Ala Ile Ser Val Val Lys Ile Leu Arg Val Leu Arg						
	885	890	895	900			
	gtg ctc cga cca ctc aga gcc atc aac aga gcc aag ggg ttg aag cac	2973					
	Val Leu Arg Pro Leu Arg Ala Ile Asn Arg Ala Lys Gly Leu Lys His						
		905	910	915			
15	gtg gct agg tgc atg ttc gtg gcc atc agc acc atc ggg aac atc gtg	3021					
	Val Ala Arg Cys Met Phe Val Ala Ile Ser Thr Ile Gly Asn Ile Val						
		920	925	930			
20	ctg gtc act acc ctc cta cag ttc atg ttt gcc tgc atc ggc gtc cag	3069					
	Leu Val Thr Thr Leu Leu Gln Phe Met Phe Ala Cys Ile Gly Val Gln						
		935	940	945			
	ctc ttc aag ggg aag ttc ttc agg tgc acc gac ttg tcc aag atg aca	3117					
25	Leu Phe Lys Gly Lys Phe Phe Arg Cys Thr Asp Leu Ser Lys Met Thr						
		950	955	960			
	gag gag gag tgc agg ggc tac tac tac gtg tac aag gac ggg gac ccc	3165					
30	Glu Glu Glu Cys Arg Gly Tyr Tyr Tyr Val Tyr Lys Asp Gly Asp Pro						
		965	970	975	980		
	atg cag ata gag ctg cgt cac cgc gag tgg gta cac agc gac ttc cac	3213					
	Met Gln Ile Glu Leu Arg His Arg Glu Trp Val His Ser Asp Phe His						
		985	990	995			
35	ttc gac aat gtg ctc tca gcc atg atg tcc ctc ttc acg gtc tcc	3258					
	Phe Asp Asn Val Leu Ser Ala Met Met Ser Leu Phe Thr Val Ser						
		1000	1005	1010			
	acc ttc gag gga tgg cct cag ctg ctg tac aag gcc ata gac tcc	3303					
40	Thr Phe Glu Gly Trp Pro Gln Leu Leu Tyr Lys Ala Ile Asp Ser						
		1015	1020	1025			
	aat gcg gag gac gtg ggt ccc atc tac aac aac cgt gtg gag atg	3348					
45	Asn Ala Glu Asp Val Gly Pro Ile Tyr Asn Asn Arg Val Glu Met						
		1030	1035	1040			
	gcc atc ttc ttc atc atc tac atc atc ctc att gcc ttc ttc atg	3393					
50	Ala Ile Phe Phe Ile Ile Tyr Ile Ile Leu Ile Ala Phe Phe Met						
		1045	1050	1055			
	atg aac atc ttt gtg ggc ttc gtc att gtc acc ttc cag gag cag	3438					
	Met Asn Ile Phe Val Gly Phe Val Ile Val Thr Phe Gln Glu Gln						
		1060	1065	1070			
55	gga gag act gag tac aag aac tgt gag ctg gac aag aac cag cgc	3483					
	Gly Glu Thr Glu Tyr Lys Asn Cys Glu Leu Asp Lys Asn Gln Arg						
		1075	1080	1085			
	caa tgt gta cag tat gcc ctg aag gcc cgc cca ctg agg tgc tac	3528					
60	Gln Cys Val Gln Tyr Ala Leu Lys Ala Arg Pro Leu Arg Cys Tyr						
		1090	1095	1100			
	att ccc aaa aac cca tac cag tac cag gtg tgg tac att gtc acc	3573					
	Ile Pro Lys Asn Pro Tyr Gln Tyr Gln Val Trp Tyr Ile Val Thr						

			1105					1110				1115		
		tcc tcc tac ttt gaa tac ctg atg ttt gcc ctc atc atg ctc aac												3618
5		Ser Ser Tyr Phe Glu Tyr Leu Met Phe Ala Leu Ile Met Leu Asn	1120				1125					1130		
		acc atc tgc ctc ggc atg cag cac tac aac cag tcg gag cag atg												3663
		Thr Ile Cys Leu Gly Met Gln His Tyr Asn Gln Ser Glu Gln Met	1135				1140					1145		
10		aac cac atc tca gac atc ctc aat gtg gcc ttc act atc atc ttc												3708
		Asn His Ile Ser Asp Ile Leu Asn Val Ala Phe Thr Ile Ile Phe	1150				1155					1160		
15		acc ctg gag atg atc ctc aag ctc atg gcc ttc aag gcc agg ggc												3753
		Thr Leu Glu Met Ile Leu Lys Leu Met Ala Phe Lys Ala Arg Gly	1165				1170					1175		
20		tac ttt gga aac ccc tgg aat gtg ttt gac ttc ctg att gtc att												3798
		Tyr Phe Gly Asn Pro Trp Asn Val Phe Asp Phe Leu Ile Val Ile	1180				1185					1190		
25		ggc agc atc att gat gtc atc ctc agt gag atc gac act ttc ctg												3843
		Gly Ser Ile Ile Asp Val Ile Leu Ser Glu Ile Asp Thr Phe Leu	1195				1200					1205		
30		gcc tcc agc ggg gga ctg tat tgc ctg ggt gga ggc tgc ggg aac												3888
		Ala Ser Ser Gly Gly Leu Tyr Cys Leu Gly Gly Gly Cys Gly Asn	1210				1215					1220		
		gtt gac cca gat gag agt gcc cgc atc tcc agc gcc ttc ttc cgc												3933
		Val Asp Pro Asp Glu Ser Ala Arg Ile Ser Ser Ala Phe Phe Arg	1225				1230					1235		
35		ctg ttc cgt gtc atg agg ctg atc aag ctg ctg agc cgg gca gaa												3978
		Leu Phe Arg Val Met Arg Leu Ile Lys Leu Leu Ser Arg Ala Glu	1240				1245					1250		
40		gga gtg cga acc ctc ctg tgg acg ttc atc aag tcc ttc cag gcc												4023
		Gly Val Arg Thr Leu Leu Trp Thr Phe Ile Lys Ser Phe Gln Ala	1255				1260					1265		
45		cta ccc tac gtg gct ctg ctc atc gtc atg ctc ttc ttc atc tac												4068
		Leu Pro Tyr Val Ala Leu Leu Ile Val Met Leu Phe Phe Ile Tyr	1270				1275					1280		
50		gct gtc atc ggc atg cag atg ttt ggg aag atc gcc ttg gtg gat												4113
		Ala Val Ile Gly Met Gln Met Phe Gly Lys Ile Ala Leu Val Asp	1285				1290					1295		
		ggg acc caa ata aac cgg aac aac aac ttc cag acc ttc cca caa												4158
		Gly Thr Gln Ile Asn Arg Asn Asn Asn Phe Gln Thr Phe Pro Gln	1300				1305					1310		
55		gct gtg cta ctg ctc ttc agg tgt gca aca ggt gag gcc tgg cag												4203
		Ala Val Leu Leu Leu Phe Arg Cys Ala Thr Gly Glu Ala Trp Gln	1315				1320					1325		
60		gag atc cta ctg gcc tgc agc tat ggg aag ctg tgt gac cca gag												4248
		Glu Ile Leu Leu Ala Cys Ser Tyr Gly Lys Leu Cys Asp Pro Glu	1330				1335					1340		
		tcg gac tat gcc cca ggg gag gag tac aca tgt ggc acc aac ttt												4293
		Ser Asp Tyr Ala Pro Gly Glu Glu Tyr Thr Cys Gly Thr Asn Phe												

			1345					1350					1355		
			gca tac tac tac	ttc atc agc ttc	tac	atg ctc tgt gcc	ttc	ctg							4338
5			Ala Tyr Tyr Tyr	Phe Ile Ser Phe	Tyr	Met Leu Cys Ala	Phe	Leu							
			1360			1365							1370		
			gtc atc aac ctc	ttt gtg gct gtc	atc	atg gac aat ttt	gac	tac							4383
			Val Ile Asn Leu	Phe Val Ala Val	Ile	Met Asp Asn Phe	Asp	Tyr							
10			1375			1380							1385		
			ctc acc cgg gac	tgg tcc atc ctg	ggc	cct cat cac ctg	gat	gag							4428
			Leu Thr Arg Asp	Trp Ser Ile Leu	Gly	Pro His His Leu	Asp	Glu							
			1390			1395							1400		
15			ttc aag gcc atc	tgg gca gag tat	gac	cca gag gct aag	ggg	agg							4473
			Phe Lys Ala Ile	Trp Ala Glu Tyr	Asp	Pro Glu Ala Lys	Gly	Arg							
			1405			1410							1415		
			atc aaa cac ctg	gac gtg gtg acc	ctg	ctg aga agg att	cag	ccc							4518
20			Ile Lys His Leu	Asp Val Val Thr	Leu	Leu Arg Arg Ile	Gln	Pro							
			1420			1425							1430		
			cct ctg ggc ttt	ggg aag ttc tgc	cca	cat cgg gta gct	tgt	aag							4563
25			Pro Leu Gly Phe	Gly Lys Phe Cys	Pro	His Arg Val Ala	Cys	Lys							
			1435			1440							1445		
			cgg ctg gtg ggc	atg aac atg ccc	ctg	aac agc gac ggc	aca	gtc							4608
			Arg Leu Val Gly	Met Asn Met Pro	Leu	Asn Ser Asp Gly	Thr	Val							
			1450			1455							1460		
30			acc ttc aat gcc	aca ctc ttt gcc	ctg	gtc cgc acg gca	ctc	aag							4653
			Thr Phe Asn Ala	Thr Leu Phe Ala	Leu	Val Arg Thr Ala	Leu	Lys							
			1465			1470							1475		
35			atc aag acg gaa	ggt aac ttt gag	cag	gcc aac gag gag	ctg	agg							4698
			Ile Lys Thr Glu	Gly Asn Phe Glu	Gln	Ala Asn Glu Glu	Leu	Arg							
			1480			1485							1490		
			gcc atc atc aag	aag atc tgg aag	aga	acc agc atg aag	ctc	ttg							4743
40			Ala Ile Ile Lys	Lys Ile Trp Lys	Arg	Thr Ser Met Lys	Leu	Leu							
			1495			1500							1505		
			gac cag gtc atc	cct cca ata gga	gat	gat gag gtg aca	gtg	ggg							4788
45			Asp Gln Val Ile	Pro Pro Ile Gly	Asp	Asp Glu Val Thr	Val	Gly							
			1510			1515							1520		
			aag ttc tac gcc	aca ttc ctc atc	cag	gag cac ttc cgg	aag	ttc							4833
			Lys Phe Tyr Ala	Thr Phe Leu Ile	Gln	Glu His Phe Arg	Lys	Phe							
			1525			1530							1535		
50			atg aaa cgc caa	gag gag tat tat	ggc	tat cgg ccc aag	aag	gac							4878
			Met Lys Arg Gln	Glu Glu Tyr Tyr	Gly	Tyr Arg Pro Lys	Lys	Asp							
			1540			1545							1550		
55			att gta cag atc	cag gca ggg ctg	cgg	acc att gag gaa	gag	gca							4923
			Ile Val Gln Ile	Gln Ala Gly Leu	Arg	Thr Ile Glu Glu	Glu	Ala							
			1555			1560							1565		
			gcc ccc gag atc	tgt cgc acg gtc	tca	gga gac ctg gct	gct	gag							4968
60			Ala Pro Glu Ile	Cys Arg Thr Val	Ser	Gly Asp Leu Ala	Ala	Glu							
			1570			1575							1580		
			gag gag ctg gag	aga gcc atg gtg	gag	gct gcg atg gag	gag	ggg							5013
			Glu Glu Leu Glu	Arg Ala Met Val	Glu	Ala Ala Met Glu	Glu	Gly							

				1585					1590				1595			
5	ata	ttc	cgg	agg	act	gga	ggc	ctg	ttt	ggc	cag	gtg	gac	aac	ttc	5058
	Ile	Phe	Arg	Arg	Thr	Gly	Gly	Leu	Phe	Gly	Gln	Val	Asp	Asn	Phe	
				1600					1605					1610		
10	ctg	gaa	agg	acc	aac	tcc	ctg	ccc	cct	gtc	atg	gcc	aat	cag	aga	5103
	Leu	Glu	Arg	Thr	Asn	Ser	Leu	Pro	Pro	Val	Met	Ala	Asn	Gln	Arg	
				1615					1620					1625		
15	ccc	ctc	cag	ttt	gct	gag	ata	gag	atg	gaa	gag	atg	gag	tca	cct	5148
	Pro	Leu	Gln	Phe	Ala	Glu	Ile	Glu	Met	Glu	Glu	Met	Glu	Ser	Pro	
				1630					1635					1640		
20	gtc	ttc	ttg	gag	gac	ttc	cca	caa	gat	cca	cgc	acc	aac	ccc	ctg	5193
	Val	Phe	Leu	Glu	Asp	Phe	Pro	Gln	Asp	Pro	Arg	Thr	Asn	Pro	Leu	
				1645					1650					1655		
25	gct	cgt	gcc	aat	acc	aac	aat	gcc	aac	gcc	aat	gtc	gcc	tat	gcg	5238
	Ala	Arg	Ala	Asn	Thr	Asn	Asn	Ala	Asn	Ala	Asn	Val	Ala	Tyr	Ala	
				1660					1665					1670		
30	aac	agc	aac	cat	agc	aac	agc	cat	gtg	ttt	tcc	agt	gtc	cac	tat	5283
	Asn	Ser	Asn	His	Ser	Asn	Ser	His	Val	Phe	Ser	Ser	Val	His	Tyr	
				1675					1680					1685		
35	gaa	agg	gag	ttc	cca	gaa	gag	aca	gag	acg	cct	gct	acc	aga	gga	5328
	Glu	Arg	Glu	Phe	Pro	Glu	Glu	Thr	Glu	Thr	Pro	Ala	Thr	Arg	Gly	
				1690					1695					1700		
40	cga	gcc	ctt	ggc	caa	ccc	tgc	agg	tcc	ctg	gga	ccc	cac	agc	aaa	5373
	Arg	Ala	Leu	Gly	Gln	Pro	Cys	Arg	Ser	Leu	Gly	Pro	His	Ser	Lys	
				1705					1710					1715		
45	ccc	tgt	gtg	gag	atg	ctg	aag	gga	ctg	ctg	acc	cag	agg	gca	atg	5418
	Pro	Cys	Val	Glu	Met	Leu	Lys	Gly	Leu	Leu	Thr	Gln	Arg	Ala	Met	
				1720					1725					1730		
50	ccc	aga	ggc	cag	gca	cct	cct	gcc	ccc	tgc	cag	tgc	ccc	agg	gtg	5463
	Pro	Arg	Gly	Gln	Ala	Pro	Pro	Ala	Pro	Cys	Gln	Cys	Pro	Arg	Val	
				1735					1740					1745		
55	gag	tcc	tcc	atg	cct	gag	gac	aga	aag	agc	tcc	aca	cca	ggg	tct	5508
	Glu	Ser	Ser	Met	Pro	Glu	Asp	Arg	Lys	Ser	Ser	Thr	Pro	Gly	Ser	
				1750					1755					1760		
60	ctt	cat	gag	gag	aca	ccc	cac	agc	agg	agc	acc	agg	gag	aat	act	5553
	Leu	His	Glu	Glu	Thr	Pro	His	Ser	Arg	Ser	Thr	Arg	Glu	Asn	Thr	
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20	aga gcc ttc cga gtg ctc aga ccc ctc cgg ctg gtg tcg ggg gtg cct Arg Ala Phe Arg Val Leu Arg Pro Leu Arg Leu Val Ser Gly Val Pro	765												
		165			170				175					180
	agc ctg cag gtg gtc ctg aac tcc atc ttc aag gcc atg ctc ccc ctc Ser Leu Gln Val Val Leu Asn Ser Ile Phe Lys Ala Met Leu Pro Leu	813												
25				185					190				195	
	ttt cac atc gcc ctg ctg gtc ctc ttt atg gtc atc atc tat gcc atc Phe His Ile Ala Leu Leu Val Leu Phe Met Val Ile Ile Tyr Ala Ile	861												
30			200					205				210		
	atc ggg ctg gag ctc ttc aag ggc aag atg cac aag acc tgc tac ttc Ile Gly Leu Glu Leu Phe Lys Gly Lys Met His Lys Thr Cys Tyr Phe	909												
		215					220				225			
35	att ggt aca gat atc gtg gcc acg gtg gag aat gaa gag cca tcg ccc Ile Gly Thr Asp Ile Val Ala Thr Val Glu Asn Glu Glu Pro Ser Pro	957												
		230				235				240				
40	tgc gcc agg acg ggc tca ggg cgc cgg tgc acc atc aat ggc agt gag Cys Ala Arg Thr Gly Ser Gly Arg Arg Cys Thr Ile Asn Gly Ser Glu	1005												
		245			250				255					260
	tgc cgg ggc ggc tgc cca ggg ccc aac cat ggc atc acc cac ttc gac Cys Arg Gly Gly Cys Pro Gly Pro Asn His Gly Ile Thr His Phe Asp	1053												
45				265					270				275	
	aac ttc ggc ttc tcc atg ctc acc gtg tac cag tgc att acc atg gag Asn Phe Gly Phe Ser Met Leu Thr Val Tyr Gln Cys Ile Thr Met Glu	1101												
50			280					285				290		
	gga tgg act gac gtc ctt tac tgg gtc aat gat gcc atc ggg aat gag Gly Trp Thr Asp Val Leu Tyr Trp Val Asn Asp Ala Ile Gly Asn Glu	1149												
		295					300				305			
55	tgg ccc tgg atc tat ttt gtc acc ctc att ttg ctg gga tcc ttc ttc Trp Pro Trp Ile Tyr Phe Val Thr Leu Ile Leu Leu Gly Ser Phe Phe	1197												
		310				315				320				
60	atc ctc aac ctg gtg ctg ggt gtc ctg agt ggg gaa ttc acc aag gag Ile Leu Asn Leu Val Leu Gly Val Leu Ser Gly Glu Phe Thr Lys Glu	1245												
		325			330				335					340
	cgg gag aag gcc aag tcc agg gga acc ttc cag aag ctc cgg gag aag Arg Glu Lys Ala Lys Ser Arg Gly Thr Phe Gln Lys Leu Arg Glu Lys	1293												

					345					350					355				
		cag	caa	cta	gat	gag	gac	ctt	cgg	ggc	tac	atg	agc	tgg	atc	acg	cag		1341
5		Gln	Gln	Leu	Asp	Glu	Asp	Leu	Arg	Gly	Tyr	Met	Ser	Trp	Ile	Thr	Gln		
					360					365					370				
		ggc	gag	gtc	atg	gat	gtt	gag	gac	ttc	aga	gaa	gga	aaa	ctg	tct	ttg		1389
		Gly	Glu	Val	Met	Asp	Val	Glu	Asp	Phe	Arg	Glu	Gly	Lys	Leu	Ser	Leu		
10				375					380					385					
		gat	gaa	ggc	ggc	tct	gac	aca	gag	agc	ctg	tat	gaa	att	gca	ggc	ttg		1437
		Asp	Glu	Gly	Gly	Ser	Asp	Thr	Glu	Ser	Leu	Tyr	Glu	Ile	Ala	Gly	Leu		
				390				395					400						
15		aac	aaa	atc	atc	cag	ttc	atc	cga	cat	tgg	agg	cag	tgg	aac	cgc	atc		1485
		Asn	Lys	Ile	Ile	Gln	Phe	Ile	Arg	His	Trp	Arg	Gln	Trp	Asn	Arg	Ile		
		405				410						415					420		
20		ttt	cgc	tgg	aag	tgc	cat	gac	atc	gtg	aag	tcc	aag	gtc	ttc	tat	tgg		1533
		Phe	Arg	Trp	Lys	Cys	His	Asp	Ile	Val	Lys	Ser	Lys	Val	Phe	Tyr	Trp		
					425						430				435				
25		ctg	gtg	att	ctc	atc	gtt	gcc	ctc	aac	acc	ctg	tct	atc	gcc	tca	gag		1581
		Leu	Val	Ile	Leu	Ile	Val	Ala	Leu	Asn	Thr	Leu	Ser	Ile	Ala	Ser	Glu		
					440					445					450				
		cac	cac	aac	cag	ccg	cac	tgg	ctg	acc	cgt	ttg	caa	gac	att	gcc	aac		1629
		His	His	Asn	Gln	Pro	His	Trp	Leu	Thr	Arg	Leu	Gln	Asp	Ile	Ala	Asn		
				455				460					465						
30		cgg	gtg	ctg	ctg	tcc	ctc	ttc	acc	act	gag	atg	ctg	atg	aag	atg	tac		1677
		Arg	Val	Leu	Leu	Ser	Leu	Phe	Thr	Thr	Glu	Met	Leu	Met	Lys	Met	Tyr		
				470				475					480						
35		ggg	ctg	ggc	ctg	cgc	cag	tac	ttc	atg	tct	atc	ttc	aac	cgc	ttc	gac		1725
		Gly	Leu	Gly	Leu	Arg	Gln	Tyr	Phe	Met	Ser	Ile	Phe	Asn	Arg	Phe	Asp		
		485				490						495					500		
40		tgc	ttc	gtg	gtg	tgc	agc	ggc	atc	ctg	gag	atc	ctg	ctg	gtg	gag	tcg		1773
		Cys	Phe	Val	Val	Cys	Ser	Gly	Ile	Leu	Glu	Ile	Leu	Leu	Val	Glu	Ser		
					505						510				515				
45		ggc	gcc	atg	aca	ccc	ctg	ggc	atc	tcc	gtg	ctc	cgc	tgc	atc	cgc	ctc		1821
		Gly	Ala	Met	Thr	Pro	Leu	Gly	Ile	Ser	Val	Leu	Arg	Cys	Ile	Arg	Leu		
					520					525					530				
		ctg	agg	atc	ttc	aag	atc	acc	aaa	tat	tgg	acg	tcg	ctg	agc	aac	ctg		1869
		Leu	Arg	Ile	Phe	Lys	Ile	Thr	Lys	Tyr	Trp	Thr	Ser	Leu	Ser	Asn	Leu		
				535					540					545					
50		gtg	gca	tcc	ctg	ctc	aac	tcc	atc	cgc	tcc	atc	gcc	tcc	ctg	ctg	ctg		1917
		Val	Ala	Ser	Leu	Leu	Asn	Ser	Ile	Arg	Ser	Ile	Ala	Ser	Leu	Leu	Leu		
				550				555					560						
55		ctg	ctc	ttc	ctc	ttc	atc	gtc	atc	ttc	cgc	ctc	ctg	ggc	atg	cag	ctc		1965
		Leu	Leu	Phe	Leu	Phe	Ile	Val	Ile	Phe	Arg	Leu	Leu	Gly	Met	Gln	Leu		
		565				570						575					580		
60		ttt	ggg	ggg	agg	tat	gac	ttt	gaa	gac	aca	gaa	gta	cgg	cgc	agc	aac		2013
		Phe	Gly	Gly	Arg	Tyr	Asp	Phe	Glu	Asp	Thr	Glu	Val	Arg	Arg	Ser	Asn		
					585						590					595			
		ttt	gac	aac	ttt	ccc	caa	gcc	ctc	atc	agc	gtc	ttc	cag	gta	ctg	aca		2061
		Phe	Asp	Asn	Phe	Pro	Gln	Ala	Leu	Ile	Ser	Val	Phe	Gln	Val	Leu	Thr		

	600							605					610					
5	ggg	gaa	gac	tgg	acc	tca	atg	atg	tac	aat	ggg	atc	atg	gcc	tcg	agc	2109	
	Gly	Glu	Asp	Trp	Thr	Ser	Met	Met	Tyr	Asn	Gly	Ile	Met	Ala	Ser	Ser		
	615							620					625					
10	ggg	ccg	tcc	tac	cct	ggc	atg	ctt	gtg	tgc	att	tac	ttc	atc	atc	ctt	2157	
	Gly	Pro	Ser	Tyr	Pro	Gly	Met	Leu	Val	Cys	Ile	Tyr	Phe	Ile	Ile	Leu		
	630							635					640					
15	ttc	gtc	tgt	ggc	aac	tac	atc	ctg	ctc	aat	gtc	ttc	ctg	gcc	att	gcc	2205	
	Phe	Val	Cys	Gly	Asn	Tyr	Ile	Leu	Leu	Asn	Val	Phe	Leu	Ala	Ile	Ala		
	645							650					655		660			
20	gtg	gac	aac	ctg	gcc	gag	gcg	gag	agc	ctg	act	tct	gcc	cag	aag	gcc	2253	
	Val	Asp	Asn	Leu	Ala	Glu	Ala	Glu	Ser	Leu	Thr	Ser	Ala	Gln	Lys	Ala		
					665						670							
25	aag	gct	gag	gag	aaa	aaa	cgc	agg	aag	atg	tcc	aag	ggt	ctc	cca	gac	2301	
	Lys	Ala	Glu	Glu	Lys	Lys	Arg	Arg	Lys	Met	Ser	Lys	Gly	Leu	Pro	Asp		
				680						685					690			
30	aag	tca	gaa	gag	gag	aag	tca	acg	atg	gcc	aag	aag	ctg	gag	cag	aaa	2349	
	Lys	Ser	Glu	Glu	Glu	Lys	Ser	Thr	Met	Ala	Lys	Lys	Leu	Glu	Gln	Lys		
	695							700					705					
35	ccc	aag	ggt	gag	ggc	atc	ccc	acc	act	gcc	aag	ctg	aaa	atc	gat	gag	2397	
	Pro	Lys	Gly	Glu	Gly	Ile	Pro	Thr	Thr	Ala	Lys	Leu	Lys	Ile	Asp	Glu		
	710							715					720					
40	ttt	gaa	tct	aat	gtc	aat	gag	gtg	aag	gat	ccc	tac	ccc	tca	gcc	gac	2445	
	Phe	Glu	Ser	Asn	Val	Asn	Glu	Val	Lys	Asp	Pro	Tyr	Pro	Ser	Ala	Asp		
	725							730					735		740			
45	ttc	cca	ggg	gat	gac	gag	gaa	gat	gag	cct	gag	atc	ccg	ctg	agc	ccc	2493	
	Phe	Pro	Gly	Asp	Asp	Glu	Glu	Asp	Glu	Pro	Glu	Ile	Pro	Leu	Ser	Pro		
					745						750							
50	cga	cca	cgt	ccc	ctg	gct	gag	ctg	cag	ctg	aaa	gag	aag	gcc	gtg	ccc	2541	
	Arg	Pro	Arg	Pro	Leu	Ala	Glu	Leu	Gln	Leu	Lys	Glu	Lys	Ala	Val	Pro		
				760						765					770			
55	att	cca	gaa	gcc	agc	tcc	ttc	ttc	atc	ttc	agc	ccc	acc	aat	aag	atc	2589	
	Ile	Pro	Glu	Ala	Ser	Ser	Phe	Phe	Ile	Phe	Ser	Pro	Thr	Asn	Lys	Ile		
	775							780					785					
60	cgt	gtc	ctg	tgt	cac	cgc	atc	gtc	aat	gcc	acc	tgg	ttc	acc	aac	ttc	2637	
	Arg	Val	Leu	Cys	His	Arg	Ile	Val	Asn	Ala	Thr	Trp	Phe	Thr	Asn	Phe		
	790							795					800					
65	atc	ctg	ctc	ttc	atc	ctg	ctc	agc	agc	gct	gca	ctg	gct	gcg	gaa	gac	2685	
	Ile	Leu	Leu	Phe	Ile	Leu	Leu	Ser	Ser	Ala	Ala	Leu	Ala	Ala	Glu	Asp		
	805							810					815		820			
70	ccc	atc	cgg	gct	gat	tcc	atg	aga	aat	cag	atc	ctt	aaa	cac	ttt	gac	2733	
	Pro	Ile	Arg	Ala	Asp	Ser	Met	Arg	Asn	Gln	Ile	Leu	Lys	His	Phe	Asp		
					825						830							
75	atc	ggg	ttc	acc	tct	gtc	ttc	act	gtg	gag	att	gtc	ctc	aag	atg	acg	2781	
	Ile	Gly	Phe	Thr	Ser	Val	Phe	Thr	Val	Glu	Ile	Val	Leu	Lys	Met	Thr		
				840						845					850			
80	acc	tac	gga	gcc	ttc	ctg	cac	aag	ggt	tcc	ttc	tgc	cgc	aat	tac	ttc	2829	
	Thr	Tyr	Gly	Ala	Phe	Leu	His	Lys	Gly	Ser	Phe	Cys	Arg	Asn	Tyr	Phe		

	855	860	865	
5	aac atg ctg gac ctg ctg gtg gtg gcc gtg tcc ctc atc tcc atg gga Asn Met Leu Asp Leu Leu Val Val Ala Val Ser Leu Ile Ser Met Gly 870 875 880	2877		
10	ctt gag tcc agt gcc atc tcc gtg gtg aag atc ctg agg gtg ctg agg Leu Glu Ser Ser Ala Ile Ser Val Val Lys Ile Leu Arg Val Leu Arg 885 890 895 900	2925		
15	gtg ctc cga cca ctc aga gcc atc aac aga gcc aag ggg ttg aag cac Val Leu Arg Pro Leu Arg Ala Ile Asn Arg Ala Lys Gly Leu Lys His 905 910 915	2973		
20	gtg gct agg tgc atg ttc gtg gcc atc agc acc atc ggg aac atc gtg Val Ala Arg Cys Met Phe Val Ala Ile Ser Thr Ile Gly Asn Ile Val 920 925 930	3021		
25	ctg gtc act acc ctc cta cag ttc atg ttt gcc tgc atc ggc gtc cag Leu Val Thr Leu Leu Gln Phe Met Phe Ala Cys Ile Gly Val Gln 935 940 945	3069		
30	ctc ttc aag ggg aag ttc ttc agg tgc acc gac ttg tcc aag atg aca Leu Phe Lys Gly Lys Phe Phe Arg Cys Thr Asp Leu Ser Lys Met Thr 950 955 960	3117		
35	gag gag gag tgc agg ggc tac tac tac gtg tac aag gac ggg gac ccc Glu Glu Glu Cys Arg Gly Tyr Tyr Tyr Val Tyr Lys Asp Gly Asp Pro 965 970 975 980	3165		
40	atg cag ata gag ctg cgt cac cgc gag tgg gta cac agc gac ttc cac Met Gln Ile Glu Leu Arg His Arg Glu Trp Val His Ser Asp Phe His 985 990 995	3213		
45	ttc gac aat gtg ctc tca gcc atg atg tcc ctc ttc acg gtc tcc Phe Asp Asn Val Leu Ser Ala Met Met Ser Leu Phe Thr Val Ser 1000 1005 1010	3258		
50	acc ttc gag gga tgg cct cag ctg ctg tac aag gcc ata gac tcc Thr Phe Glu Gly Trp Pro Gln Leu Tyr Lys Ala Ile Asp Ser 1015 1020 1025	3303		
55	aat gcg gag gac gtg ggt ccc atc tac aac aac cgt gtg gag atg Asn Ala Glu Asp Val Gly Pro Ile Tyr Asn Asn Arg Val Glu Met 1030 1035 1040	3348		
60	gcc atc ttc ttc atc atc tac atc atc ctc att gcc ttc ttc atg Ala Ile Phe Phe Ile Ile Tyr Ile Ile Leu Ile Ala Phe Phe Met 1045 1050 1055	3393		
65	atg aac atc ttt gtg ggc ttc gtc att gtc acc ttc cag gag cag Met Asn Ile Phe Val Gly Phe Val Ile Val Thr Phe Gln Glu Gln 1060 1065 1070	3438		
70	gga gag act gag tac aag aac tgt gag ctg gac aag aac cag cgc Gly Glu Thr Glu Tyr Lys Asn Cys Glu Leu Asp Lys Asn Gln Arg 1075 1080 1085	3483		
75	caa tgt gta cag tat gcc ctg aag gcc cgc cca ctg agg tgc tac Gln Cys Val Gln Tyr Ala Leu Lys Ala Arg Pro Leu Arg Cys Tyr 1090 1095 1100	3528		
80	att ccc aaa aac cca tac cag tac cag gtg tgg tac att gtc acc Ile Pro Lys Asn Pro Tyr Gln Tyr Gln Val Trp Tyr Ile Val Thr 1105 1110	3573		

			1105					1110				1115				
		tcc tcc tac ttt gaa tac ctg atg ttt gcc ctc atc atg ctc aac														3618
5		Ser Ser Tyr Phe 1120	Glu Tyr Leu Met 1125	Phe Ala Leu Ile Met 1130	Leu Asn											
		acc atc tgc ctc ggc atg cag cac tac aac cag tcg gag cag atg														3663
10		Thr Ile Cys Leu 1135	Gly Met Gln His 1140	Tyr Asn Gln Ser Glu Gln Met 1145												
		aac cac atc tca gac atc ctc aat gtg gcc ttc act atc atc ttc														3708
		Asn His Ile Ser 1150	Asp Ile Leu Asn Val 1155	Ala Phe Thr Ile Ile Phe 1160												
15		acc ctg gag atg atc ctc aag ctc atg gcc ttc aag gcc agg ggc														3753
		Thr Leu Glu Met 1165	Ile Leu Lys Leu Met 1170	Ala Phe Lys Ala Arg Gly 1175												
20		tac ttt gga aac ccc tgg aat gtg ttt gac ttc ctg att gtc att														3798
		Tyr Phe Gly Asn 1180	Pro Trp Asn Val 1185	Asp Phe Leu Ile Val Ile 1190												
25		ggc agc atc att gat gtc atc ctc agt gag atc gac act ttc ctg														3843
		Gly Ser Ile Ile 1195	Asp Val Ile Leu Ser 1200	Glu Ile Asp Thr Phe Leu 1205												
30		gcc tcc agc ggg gga ctg tat tgc ctg ggt gga ggc tgc ggg aac														3888
		Ala Ser Ser Gly 1210	Gly Leu Tyr Cys Leu 1215	Gly Gly Gly Cys Gly Asn 1220												
		gtt gac cca gat gag agt gcc cgc atc tcc agc gcc ttc ttc cgc														3933
		Val Asp Pro Asp 1225	Glu Ser Ala Arg Ile 1230	Ser Ser Ala Phe Phe Arg 1235												
35		ctg ttc cgt gtc atg agg ctg atc aag ctg ctg agc cgg gca gaa														3978
		Leu Phe Arg Val 1240	Met Arg Leu Ile Lys 1245	Leu Leu Ser Arg Ala Glu 1250												
40		gga gtg cga acc ctc ctg tgg acg ttc atc aag tcc ttc cag gcc														4023
		Gly Val Arg Thr 1255	Leu Leu Trp Thr Phe 1260	Ile Lys Ser Phe Gln Ala 1265												
45		cta ccc tac gtg gct ctg ctc atc gtc atg ctc ttc ttc atc tac														4068
		Leu Pro Tyr Val 1270	Ala Leu Leu Ile Val 1275	Met Leu Phe Phe Ile Tyr 1280												
50		gct gtc atc ggc atg cag atg ttt ggg aag atc gcc ttg gtg gat														4113
		Ala Val Ile Gly 1285	Met Gln Met Phe Gly 1290	Lys Ile Ala Leu Val Asp 1295												
		ggg acc caa ata aac cgg aac aac aac ttc cag acc ttc cca caa														4158
		Gly Thr Gln Ile 1300	Asn Arg Asn Asn 1305	Phe Gln Thr Phe Pro Gln 1310												
55		gct gtg cta ctg ctc ttc agg tgt gca aca ggt gag gcc tgg cag														4203
		Ala Val Leu Leu 1315	Leu Phe Arg Cys Ala 1320	Thr Gly Glu Ala Trp Gln 1325												
60		gag atc cta ctg gcc tgc agc tat ggg aag ctg tgt gac cca gag														4248
		Glu Ile Leu Leu 1330	Ala Cys Ser Tyr Gly 1335	Lys Leu Cys Asp Pro Glu 1340												
		tcg gac tat gcc cca ggg gag gag tac aca tgt ggc acc aac ttt														4293
		Ser Asp Tyr Ala 1345	Pro Gly Glu Glu Tyr 1350	Thr Cys Gly Thr Asn Phe 1355												

			1345					1350				1355				
			gca tac tac tac ttc atc agc ttc tac atg ctc tgt gcc ttc ctg													4338
			Ala Tyr Tyr Tyr Phe Ile Ser Phe Tyr Met Leu Cys Ala Phe Leu													
5			1360					1365				1370				
			gtc atc aac ctc ttt gtg gct gtc atc atg gac aat ttt gac tac													4383
			Val Ile Asn Leu Phe Val Ala Val Ile Met Asp Asn Phe Asp Tyr													
10			1375					1380				1385				
			ctc acc cgg gac tgg tcc atc ctg ggc cct cat cac ctg gat gag													4428
			Leu Thr Arg Asp Trp Ser Ile Leu Gly Pro His His Leu Asp Glu													
			1390					1395				1400				
15			ttc aag gcc atc tgg gca gag tat gac cca gag gct aag ggg agg													4473
			Phe Lys Ala Ile Trp Ala Glu Tyr Asp Pro Glu Ala Lys Gly Arg													
			1405					1410				1415				
20			atc aaa cac ctg gac gtg gtg acc ctg ctg aga agg att cag ccc													4518
			Ile Lys His Leu Asp Val Val Thr Leu Leu Arg Arg Ile Gln Pro													
			1420					1425				1430				
25			cct ctg ggc ttt ggg aag ttc tgc cca cat cgg gta gct tgt aag													4563
			Pro Leu Gly Phe Gly Lys Phe Cys Pro His Arg Val Ala Cys Lys													
			1435					1440				1445				
30			cgg ctg gtg ggc atg aac atg ccc ctg aac agc gac ggc aca gtc													4608
			Arg Leu Val Gly Met Asn Met Pro Leu Asn Ser Asp Gly Thr Val													
			1450					1455				1460				
			acc ttc aat gcc aca ctc ttt gcc ctg gtc cgc acg gca ctc aag													4653
			Thr Phe Asn Ala Thr Leu Phe Ala Leu Val Arg Thr Ala Leu Lys													
			1465					1470				1475				
35			atc aag acg gaa ggt aac ttt gag cag gcc aac gag gag ctg agg													4698
			Ile Lys Thr Glu Gly Asn Phe Glu Gln Ala Asn Glu Glu Leu Arg													
			1480					1485				1490				
40			gcc atc atc aag aag atc tgg aag aga acc agc atg aag ctc ttg													4743
			Ala Ile Ile Lys Lys Ile Trp Lys Arg Thr Ser Met Lys Leu Leu													
			1495					1500				1505				
45			gac cag gtc atc cct cca ata gga gat gat gag gtg aca gtg ggg													4788
			Asp Gln Val Ile Pro Pro Ile Gly Asp Asp Glu Val Thr Val Gly													
			1510					1515				1520				
50			aag ttc tac gcc aca ttc ctc atc cag gag cac ttc cgg aag ttc													4833
			Lys Phe Tyr Ala Thr Phe Leu Ile Gln Glu His Phe Arg Lys Phe													
			1525					1530				1535				
			atg aaa cgc caa gag gag tat tat ggc tat cgg ccc aag aag gac													4878
			Met Lys Arg Gln Glu Glu Tyr Tyr Gly Tyr Arg Pro Lys Lys Asp													
			1540					1545				1550				
55			att gta cag atc cag gca ggg ctg cgg acc att gag gaa gag gca													4923
			Ile Val Gln Ile Gln Ala Gly Leu Arg Thr Ile Glu Glu Glu Ala													
			1555					1560				1565				
60			gcc ccc gag atc tgt cgc acg gtc tca gga gac ctg gct gct gag													4968
			Ala Pro Glu Ile Cys Arg Thr Val Ser Gly Asp Leu Ala Ala Glu													
			1570					1575				1580				
			gag gag ctg gag aga gcc atg gtg gag gct gcg atg gag gag ggg													5013
			Glu Glu Leu Glu Arg Ala Met Val Glu Ala Ala Met Glu Glu Gly													

				1585					1590					1595		
	5	ata ttc cgg agg act gga ggc ctg ttt ggc cag gtg gac aac ttc														5058
		Ile Phe Arg Arg Thr Gly Gly Leu Phe Gly Gln Val Asp Asn Phe														
			1600					1605					1610			
		ctg gaa agg acc aac tcc ctg ccc cct gtc atg gcc aat cag aga														5103
		Leu Glu Arg Thr Asn Ser Leu Pro Pro Val Met Ala Asn Gln Arg														
	10		1615					1620					1625			
		ccc ctc cag ttt gct gag ata gag atg gaa gag atg gag tca cct														5148
		Pro Leu Gln Phe Ala Glu Ile Glu Met Glu Glu Met Glu Ser Pro														
			1630					1635					1640			
	15	gtc ttc ttg gag gac ttc cca caa gat cca cgc acc aac ccc ctg														5193
		Val Phe Leu Glu Asp Phe Pro Gln Asp Pro Arg Thr Asn Pro Leu														
			1645					1650					1655			
	20	gct cgt gcc aat acc aac aat gcc aac gcc aat gtc gcc tat gcg														5238
		Ala Arg Ala Asn Thr Asn Asn Ala Asn Ala Asn Val Ala Tyr Ala														
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	tcatttttcg tccttatcag agaattctca aaggaaagag agaaggcaaa agcacgggga	1380
25	gatttccaga agctccggga gaagcagcag ctggaggagg atctaaaggg ctacttgat	1440
	tggatcacc cagctgagga catcgatccg gagaatgagg aagaaggagg agaggaaggc	1500
30	aaacgaaata ctagc atg ccc acc agc gag act gag tct gtg aac aca gag Met Pro Thr Ser Glu Thr Glu Ser Val Asn Thr Glu 1 5 10	1551
35	aac gtc agc ggt gaa ggc gag aac cga ggc tgc tgt gga agt ctc tgg Asn Val Ser Gly Glu Gly Glu Asn Arg Gly Cys Cys Gly Ser Leu Trp 15 20 25	1599
40	tgc tgg tgg aga cgg aga ggc gcg gcc aag gcg ggg ccc tct ggg tgt Cys Trp Trp Arg Arg Arg Gly Ala Ala Lys Ala Gly Pro Ser Gly Cys 30 35 40	1647
	cgg cgg tgg ggt caa gcc atc tca aaa tcc aaa ctc agc cga cgc tgg Arg Arg Trp Gly Gln Ala Ile Ser Lys Ser Lys Leu Ser Arg Arg Trp 45 50 55 60	1695
45	cgt cgc tgg aac cga ttc aat cgc aga aga tgt agg gcc gcc gtg aag Arg Arg Trp Asn Arg Phe Asn Arg Arg Arg Cys Arg Ala Ala Val Lys 65 70 75	1743
50	tct gtc acg ttt tac tgg ctg gtt atc gtc ctg gtg ttt ctg aac acc Ser Val Thr Phe Tyr Trp Leu Val Ile Val Leu Val Phe Leu Asn Thr 80 85 90	1791
55	tta acc att tcc tct gag cac tac aat cag cca gat tgg ttg aca cag Leu Thr Ile Ser Ser Glu His Tyr Asn Gln Pro Asp Trp Leu Thr Gln 95 100 105	1839
60	att caa gat atg ccc aac aaa gtc ctc ttg gct ctg ttc acc tgc gag Ile Gln Asp Met Pro Asn Lys Val Leu Leu Ala Leu Phe Thr Cys Glu 110 115 120	1887
	atg ctg gta aaa atg tac agc ttg ggc ctc caa gca tat ttc gtc tct Met Leu Val Lys Met Tyr Ser Leu Gly Leu Gln Ala Tyr Phe Val Ser 125 130 135 140	1935

	ctt ttc aac cgg ttt gat tgc ttc gtg gtg tgt ggt gga atc act gag	1983
	Leu Phe Asn Arg Phe Asp Cys Phe Val Val Cys Gly Gly Ile Thr Glu	
	145 150 155	
5	acg atc ttg gtg gaa ctg gaa atc atg tct ccc ctg ggg atc tct gtg	2031
	Thr Ile Leu Val Glu Leu Glu Ile Met Ser Pro Leu Gly Ile Ser Val	
	160 165 170	
10	ttt cgg tgt gtg cgc ctc tta aga atc ttc aaa gtg acc agg cac tgg	2079
	Phe Arg Cys Val Arg Leu Leu Arg Ile Phe Lys Val Thr Arg His Trp	
	175 180 185	
15	act tcc ctg agc aac tta gtg gca tcc tta tta aac tcc atg aag tcc	2127
	Thr Ser Leu Ser Asn Leu Val Ala Ser Leu Leu Asn Ser Met Lys Ser	
	190 195 200	
20	atc gct tcg ctg ttg ctt ctg ctt ttt ctc ttc att atc atc ttt tcc	2175
	Ile Ala Ser Leu Leu Leu Leu Phe Leu Phe Ile Ile Ile Phe Ser	
	205 210 215 220	
25	ttg ctt ggg atg cag ctg ttt ggc ggc aag ttt aat ttt gat gaa acg	2223
	Leu Leu Gly Met Gln Leu Phe Gly Gly Lys Phe Asn Phe Asp Glu Thr	
	225 230 235	
30	caa acc aag cgg agc acc ttt gac aat ttc cct caa gca ctt ctc aca	2271
	Gln Thr Lys Arg Ser Thr Phe Asp Asn Phe Pro Gln Ala Leu Leu Thr	
	240 245 250	
35	gtg ttc cag atc ctg aca ggc gaa gac tgg aat gct gtg atg tac gat	2319
	Val Phe Gln Ile Leu Thr Gly Glu Asp Trp Asn Ala Val Met Tyr Asp	
	255 260 265	
40	ggc atc atg gct tac ggg ggc cca tcc tct tca gga atg atc gtc tgc	2367
	Gly Ile Met Ala Tyr Gly Gly Pro Ser Ser Ser Gly Met Ile Val Cys	
	270 275 280	
45	atc tac ttc atc atc ctc ttc att tgt ggt aac tat att cta ctg aat	2415
	Ile Tyr Phe Ile Ile Leu Phe Ile Cys Gly Asn Tyr Ile Leu Leu Asn	
	285 290 295 300	
50	gtc ttc ttg gcc atc gct gta gac aat ttg gct gat gct gaa agt ctg	2463
	Val Phe Leu Ala Ile Ala Val Asp Asn Leu Ala Asp Ala Glu Ser Leu	
	305 310 315	
55	aac act gct cag aaa gaa gaa gcg gaa gaa aag gag agg aaa aag att	2511
	Asn Thr Ala Gln Lys Glu Glu Ala Glu Glu Lys Glu Arg Lys Lys Ile	
	320 325 330	
60	gcc aga aaa gag agc cta gaa aat aaa aag aac aac aaa cca gaa gtc	2559
	Ala Arg Lys Glu Ser Leu Glu Asn Lys Lys Asn Asn Lys Pro Glu Val	
	335 340 345	
65	aac cag ata gcc aac agt gac aac aag gtt aca att gat gac tat aga	2607
	Asn Gln Ile Ala Asn Ser Asp Asn Lys Val Thr Ile Asp Asp Tyr Arg	
	350 355 360	
70	gaa gag gat gaa gac aag gac ccc tat ccg cct tgc gat gtg cca ggt	2655
	Glu Glu Asp Glu Asp Lys Asp Pro Tyr Pro Pro Cys Asp Val Pro Gly	
	365 370 375 380	
75	atg gtg gnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn nnn	2703
	Met Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa	

[illegible]

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5		Tyr	Arg	Cys	Thr	Asp	Glu	Ala	Lys	Ser	Asn	Pro	Glu	Glu	Cys	Arg	Gly		
				655					660					665					
		ctt	ttc	atc	ctc	tac	aag	gat	ggg	gat	gtt	gac	agt	cct	gtg	gtc	cgt		3567
		Leu	Phe	Ile	Leu	Tyr	Lys	Asp	Gly	Asp	Val	Asp	Ser	Pro	Val	Val	Arg		
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		gaa	cgg	atc	tgg	caa	aac	agt	gat	ttc	aac	ttc	gac	aac	gtc	ctc	tct		3615
		Glu	Arg	Ile	Trp	Gln	Asn	Ser	Asp	Phe	Asn	Phe	Asp	Asn	Val	Leu	Ser		
				685					690					695			700		
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		Ala	Met	Met	Ala	Leu	Phe	Thr	Val	Ser	Thr	Phe	Glu	Gly	Trp	Pro	Ala		
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		ttg	ctg	tat	aaa	gcc	atc	gac	tcg	aat	gga	gag	aac	atc	ggc	cca	atc		3711
20		Leu	Leu	Tyr	Lys	Ala	Ile	Asp	Ser	Asn	Gly	Glu	Asn	Ile	Gly	Pro	Ile		
					720					725					730				
		tac	aac	cac	cgc	gtg	gag	atc	tcc	atc	ttc	ttc	atc	atc	tac	atc	atc		3759
25		Tyr	Asn	His	Arg	Val	Glu	Ile	Ser	Ile	Phe	Phe	Ile	Ile	Tyr	Ile	Ile		
				735					740					745					
		att	gta	gct	ttc	ttc	atg	atg	aac	atc	ttt	gtg	ggc	ttt	gtc	atc	gtt		3807
		Ile	Val	Ala	Phe	Phe	Met	Met	Asn	Ile	Phe	Val	Gly	Phe	Val	Ile	Val		
30				750					755					760					
		aca	ttt	cag	gaa	caa	gga	gaa	aaa	gag	tat	aag	aac	tgt	gag	ctg	gac		3855
		Thr	Phe	Gln	Glu	Gln	Gly	Glu	Lys	Glu	Tyr	Lys	Asn	Cys	Glu	Leu	Asp		
				765					770					775			780		
35		aaa	aat	cag	cgt	cag	tgt	gtt	gaa	tac	gcc	ttg	aaa	gca	cgt	ccc	ttg		3903
		Lys	Asn	Gln	Arg	Gln	Cys	Val	Glu	Tyr	Ala	Leu	Lys	Ala	Arg	Pro	Leu		
						785					790					795			
		cgg	aga	tac	atc	ccc	aaa	aac	ccc	tac	cag	tac	aag	ttc	tgg	tac	gtg		3951
40		Arg	Arg	Tyr	Ile	Pro	Lys	Asn	Pro	Tyr	Gln	Tyr	Lys	Phe	Trp	Tyr	Val		
					800					805					810				
		gtg	aac	tct	tcg	cct	ttc	gaa	tac	atg	atg	ttt	gtc	ctc	atc	atg	ctc		3999
45		Val	Asn	Ser	Ser	Pro	Phe	Glu	Tyr	Met	Met	Phe	Val	Leu	Ile	Met	Leu		
				815					820					825					
		aac	aca	ctc	tgc	ttg	gcc	atg	cag	cac	tac	gag	cag	tcc	aag	atg	ttc		4047
		Asn	Thr	Leu	Cys	Leu	Ala	Met	Gln	His	Tyr	Glu	Gln	Ser	Lys	Met	Phe		
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		aat	gat	gcc	atg	gac	att	ctg	aac	atg	gtc	ttc	acc	ggg	gtg	ttc	acc		4095
		Asn	Asp	Ala	Met	Asp	Ile	Leu	Asn	Met	Val	Phe	Thr	Gly	Val	Phe	Thr		
				845				850					855				860		
55		gtc	gag	atg	gtt	ttg	aaa	gtc	atc	gca	ttt	aag	cct	aag	ggg	tat	ttt		4143
		Val	Glu	Met	Val	Leu	Lys	Val	Ile	Ala	Phe	Lys	Pro	Lys	Gly	Tyr	Phe		
						865					870					875			
		agt	gac	gcc	tgg	aac	acg	ttt	gac	tcc	ctc	atc	gta	atc	ggc	agc	att		4191
60		Ser	Asp	Ala	Trp	Asn	Thr	Phe	Asp	Ser	Leu	Ile	Val	Ile	Gly	Ser	Ile		
					880					885					890				
		ata	gac	gtg	gcc	ctc	agc	gaa	gca	aag	cca	act	gaa	agt	gaa	aat	gtc		4239
		Ile	Asp	Val	Ala	Leu	Ser	Glu	Ala	Lys	Pro	Thr	Glu	Ser	Glu	Asn	Val		

	895	900	905	
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10	tcc atc acc ttt ttc cgt ctt ttc cga gtg atg cga ttg gtg aag ctt Ser Ile Thr Phe Phe Arg Leu Phe Arg Val Met Arg Leu Val Lys Leu 925 930 935 940	4335		
15	ctc agc agg ggg gaa ggc atc cgg aca ttg ctg tgg act ttt att aag Leu Ser Arg Gly Glu Gly Ile Arg Thr Leu Leu Trp Thr Phe Ile Lys 945 950 955	4383		
20	tcc ttt cag gcg ctc ccg tat gtg gcc ctc ctc ata gcc atg ctg ttc Ser Phe Gln Ala Leu Pro Tyr Val Ala Leu Leu Ile Ala Met Leu Phe 960 965 970	4431		
25	aga gat aac aac cag atc aat agg aac aat aac ttc cag acg ttt ccc Arg Asp Asn Asn Gln Ile Asn Arg Asn Asn Asn Phe Gln Thr Phe Pro 990 995 1000	4479		
30	cag gcg gtg ctg ctg ctc ttc agg tgt gca aca ggt gag gcc tgg Gln Ala Val Leu Leu Leu Phe Arg Cys Ala Thr Gly Glu Ala Trp 1005 1010 1015	4527		
35	cag gag atc atg ctg gcc tgt ctc cca ggg aag ctc tgt gac cct Gln Glu Ile Met Leu Ala Cys Leu Pro Gly Lys Leu Cys Asp Pro 1020 1025 1030	4572		
40	gag tca gat tac aac ccc ggg gag gag tat aca tgt ggg agc aac Glu Ser Asp Tyr Asn Pro Gly Glu Glu Tyr Thr Cys Gly Ser Asn 1035 1040 1045	4617		
45	ttt gcc att gtc tat ttc atc agt ttt tac atg ctc tgt gca ttt Phe Ala Ile Val Tyr Phe Ile Ser Phe Tyr Met Leu Cys Ala Phe 1050 1055 1060	4662		
50	ctg atc atc aat ctg ttt gtg gct gtc atc atg gat aat ttc gac Leu Ile Ile Asn Leu Phe Val Ala Val Ile Met Asp Asn Phe Asp 1065 1070 1075	4707		
55	tat ctg acc cgg gac tgg tct att ttg ggg cct cac cat tta gat Tyr Leu Thr Arg Asp Trp Ser Ile Leu Gly Pro His His Leu Asp 1080 1085 1090	4752		
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	agg ata aaa cac ctt gat gtg gtc act ctg ctt cga cgc atc cag Arg Ile Lys His Leu Asp Val Val Thr Leu Leu Arg Arg Ile Gln 1110 1115 1120	4842		
	cct ccc ctg ggg ttt ggg aag tta tgt cca cac agg gta gcg tgc Pro Pro Leu Gly Phe Gly Lys Leu Cys Pro His Arg Val Ala Cys 1125 1130 1135	4887		
	aag aga tta gtt gcc atg aac atg cct ctc aac agt gac ggg aca Lys Arg Leu Val Ala Met Asn Met Pro Leu Asn Ser Asp Gly Thr 1140 1145 1150	4932		
		4977		

	1140		1145		1150		
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	Val Met Phe Asn Ala Thr	Leu Phe Ala Leu Val	Arg Thr Ala Leu				
	1155	1160	1165				
10	aag atc aag acc gaa ggg	aac ctg gag caa gct	aat gaa gaa ctt	5067			
	Lys Ile Lys Thr Glu Gly	Asn Leu Glu Gln Ala	Asn Glu Glu Leu				
	1170	1175	1180				
15	cgg gct gtg ata aag aaa	att tgg aag aaa acc	agc atg aaa tta	5112			
	Arg Ala Val Ile Lys Lys	Ile Trp Lys Lys Thr	Ser Met Lys Leu				
	1185	1190	1195				
20	ctt gac caa gtt gtc cct	cca gct ggt gat gat	gag gta acc gtg	5157			
	Leu Asp Gln Val Val Pro	Pro Ala Gly Asp Asp	Glu Val Thr Val				
	1200	1205	1210				
25	ggg aag ttc tat gcc act	ttc ctg ata cag gac	tac ttt agg aaa	5202			
	Gly Lys Phe Tyr Ala Thr	Phe Leu Ile Gln Asp	Tyr Phe Arg Lys				
	1215	1220	1225				
30	ttc aag aaa cgg aaa gaa	caa gga ctg gtg gga	aag tac cct gcg	5247			
	Phe Lys Lys Arg Lys Glu	Gln Gly Leu Val Gly	Lys Tyr Pro Ala				
	1230	1235	1240				
35	aag aac acc aca att gcc	cta cag gcg gga tta	agg aca ctg cat	5292			
	Lys Asn Thr Thr Ile Ala	Leu Gln Ala Gly Leu	Arg Thr Leu His				
	1245	1250	1255				
40	gac att ggg cca gaa atc	cgg cgt gct ata tcg	tgt gat ttg caa	5337			
	Asp Ile Gly Pro Glu Ile	Arg Arg Ala Ile Ser	Cys Asp Leu Gln				
	1260	1265	1270				
45	gat gac gag cct gag gaa	aca aaa cga gaa gaa	gaa gat gat gtg	5382			
	Asp Asp Glu Pro Glu Glu	Thr Lys Arg Glu Glu	Glu Asp Asp Val				
	1275	1280	1285				
50	ttc aaa aga aat ggt gcc	ctg ctt gga aac cat	gtc aat cat gtt	5427			
	Phe Lys Arg Asn Gly Ala	Leu Leu Gly Asn His	Val Asn His Val				
	1290	1295	1300				
55	aat agt gat agg aga gat	tcc ctt cag cag acc	aat acc acc cac	5472			
	Asn Ser Asp Arg Arg Asp	Ser Leu Gln Gln Thr	Asn Thr Thr His				
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60	cgt ccc ctg cat gtc caa	agg cct tca att cca	cct gca agt gat	5517			
	Arg Pro Leu His Val Gln	Arg Pro Ser Ile Pro	Pro Ala Ser Asp				
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65	act gag aaa ccg ctg ttt	cct cca gca gga aat	tcg gtg tgt cat	5562			
	Thr Glu Lys Pro Leu Phe	Pro Pro Ala Gly Asn	Ser Val Cys His				
	1335	1340	1345				
70	aac cat cat aac cat aat	tcc ata gga aag caa	gtt ccc acc tca	5607			
	Asn His His Asn His Asn	Ser Ile Gly Lys Gln	Val Pro Thr Ser				
	1350	1355	1360				
75	aca aat gcc aat ctc aat	aat gcc aat atg tcc	aaa gct gcc cat	5652			
	Thr Asn Ala Asn Leu Asn	Asn Ala Asn Met Ser	Lys Ala Ala His				
	1365	1370	1375				
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	Gly Lys Arg Pro Ser Ile	Gly Asn Leu Glu His	Val Ser Glu Asn				

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10	tcc agt gtg aaa aga acc cgc tat tat gaa act tac att agg tcc Ser Ser Val Lys Arg Thr Arg Tyr Tyr Glu Thr Tyr Ile Arg Ser 1410 1415 1420						5787
15	gac tca gga gat gaa cag ctc cca act att tgc cgg gaa gac cca Asp Ser Gly Asp Glu Gln Leu Pro Thr Ile Cys Arg Glu Asp Pro 1425 1430 1435						5832
20	gag ata cat ggc tat ttc agg gac ccc cac tgc ttg ggg gag cag Glu Ile His Gly Tyr Phe Arg Asp Pro His Cys Leu Gly Glu Gln 1440 1445 1450						5877
25	gag tat ttc agt agt gag gaa tgc tac gag gat gac agc tcg ccc Glu Tyr Phe Ser Ser Glu Glu Cys Tyr Glu Asp Asp Ser Ser Pro 1455 1460 1465						5922
30	acc tgg agc agg caa aac tat ggc tac tac agc aga tac cca ggc Thr Trp Ser Arg Gln Asn Tyr Gly Tyr Tyr Ser Arg Tyr Pro Gly 1470 1475 1480						5967
35	aga aac atc gac tct gag agg ccc cga ggc tac cat cat ccc caa Arg Asn Ile Asp Ser Glu Arg Pro Arg Gly Tyr His His Pro Gln 1485 1490 1495						6012
40	gga ttc ttg gag gac gat gac tcg ccc gtt tgc tat gat tca cgg Gly Phe Leu Glu Asp Asp Asp Ser Pro Val Cys Tyr Asp Ser Arg 1500 1505 1510						6057
45	aga tct cca agg aga cgc cta cta cct ccc acc cca gca tcc cac Arg Ser Pro Arg Arg Arg Leu Leu Pro Pro Thr Pro Ala Ser His 1515 1520 1525						6102
50	cgg aga tcc tcc ttc aac ttt gag tgc ctg cgc cgg cag agc agc Arg Arg Ser Ser Phe Asn Phe Glu Cys Leu Arg Arg Gln Ser Ser 1530 1535 1540						6147
55	cag gaa gag gtc ccg tcg tct ccc atc ttc ccc cat cgc acg gcc Gln Glu Glu Val Pro Ser Ser Pro Ile Phe Pro His Arg Thr Ala 1545 1550 1555						6192
60	ctg cct ctg cat cta atg cag caa cag atc atg gca gtt gcc ggc Leu Pro Leu His Leu Met Gln Gln Gln Ile Met Ala Val Ala Gly 1560 1565 1570						6237
65	cta gat tca agt aaa gcc cag aag tac tca ccg agt cac tcg acc Leu Asp Ser Ser Lys Ala Gln Lys Tyr Ser Pro Ser His Ser Thr 1575 1580 1585						6282
70	cgg tcg tgg gcc acc cct cca gca acc cct ccc tac cgg gac tgg Arg Ser Trp Ala Thr Pro Pro Ala Thr Pro Pro Tyr Arg Asp Trp 1590 1595 1600						6327
75	aca ccg tgc tac acc ccc ctg atc caa gtg gag cag tca gag gcc Thr Pro Cys Tyr Thr Pro Leu Ile Gln Val Glu Gln Ser Glu Ala 1605 1610 1615						6372
80	ctg gac cag gtg aac ggc agc ctg ccg tcc ctg cac cgc agc tcc Leu Asp Gln Val Asn Gly Ser Leu Pro Ser Leu His Arg Ser Ser 1620 1625 1630						6417

	1620		1625		1630	
	tgg tac aca gac gag ccc gac atc tcc tac cgg act ttc aca cca		6462			
	Trp Tyr Thr Asp Glu Pro Asp Ile Ser Tyr Arg Thr Phe Thr Pro					
5	1635	1640	1645			
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10	1650	1655	1660			
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	Lys Gln Arg Ser Ala Asp Ser Leu Val Glu Ala Val Leu Ile Ser					
	1665	1670	1675			
15	gaa ggc ttg gga cgc tat gca agg gac cca aaa ttt gtg tca gca		6597			
	Glu Gly Leu Gly Arg Tyr Ala Arg Asp Pro Lys Phe Val Ser Ala					
	1680	1685	1690			
20	aca aaa cac gaa atc gct gat gcc tgt gac ctc acc atc gac gag		6642			
	Thr Lys His Glu Ile Ala Asp Ala Cys Asp Leu Thr Ile Asp Glu					
	1695	1700	1705			
	atg gag agt gca gcc agc acc ctg ctt aat ggg aac gtg cgt ccc		6687			
	Met Glu Ser Ala Ala Ser Thr Leu Leu Asn Gly Asn Val Arg Pro					
25	1710	1715	1720			
	cga gcc aac ggg gat gtg ggc ccc ctc tca cac cgg cag gac tat		6732			
	Arg Ala Asn Gly Asp Val Gly Pro Leu Ser His Arg Gln Asp Tyr					
30	1725	1730	1735			
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	Glu Leu Gln Asp Phe Gly Pro Gly Tyr Ser Asp Glu Glu Pro Asp					
	1740	1745	1750			
35	cct ggg agg gat gag gag gac ctg gcg gat gaa atg ata tgc atc		6822			
	Pro Gly Arg Asp Glu Glu Asp Leu Ala Asp Glu Met Ile Cys Ile					
	1755	1760	1765			
40	acc acc ttg tag ccccccagcga ggggcagact ggctctggcc tcaggtgggg		6874			
	Thr Thr Leu					
	1770					
	cgcaggagag ccaggggaaa agtgcctcat agttaggaaa gtttaggcac tagttgggag		6934			
45	taatattcaa ttaattagac ttttgtataa gagatgtcat gcctcaagaa agccataaac		6994			
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	<211> 1772					
	<212> PRT					

<213> Homo sapiens

 <220>
 <221> misc_feature
 5 <222> (383)..(383)
 <223> The 'Xaa' at location 383 stands for Glu, Asp, Gly, Ala, or Val.

 <220>
 <221> misc_feature
 10 <222> (384)..(384)
 <223> The 'Xaa' at location 384 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

 15 <220>
 <221> misc_feature
 <222> (385)..(385)
 <223> The 'Xaa' at location 385 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.
 20

 <220>
 <221> misc_feature
 <222> (386)..(386)
 25 <223> The 'Xaa' at location 386 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp, Cys, or Phe.

 <220>
 30 <221> misc_feature
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Cys, or Phe.

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 30 <223> The 'Xaa' at location 470 stands for Lys, Asn, Arg, Ser, Thr,
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 40 <223> The 'Xaa' at location 472 stands for Lys, Asn, Arg, Ser, Thr,
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 50 <223> The 'Xaa' at location 473 stands for Lys, Asn, Arg, Ser, Thr,
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 5 <223> The 'Xaa' at location 474 stands for Lys, Asn, Arg, Ser, Thr,
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 Cys, or Phe.

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 Cys, or Phe.

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35 40 45
Gln Ala Ile Ser Lys Ser Lys Leu Ser Arg Arg Trp Arg Arg Trp Asn
50 55 60
15 Arg Phe Asn Arg Arg Arg Cys Arg Ala Ala Val Lys Ser Val Thr Phe
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Tyr Trp Leu Val Ile Val Leu Val Phe Leu Asn Thr Leu Thr Ile Ser
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Pro Asn Lys Val Leu Leu Ala Leu Phe Thr Cys Glu Met Leu Val Lys
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30 Phe Asp Cys Phe Val Val Cys Gly Gly Ile Thr Glu Thr Ile Leu Val
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275 280 285
55 Ile Leu Phe Ile Cys Gly Asn Tyr Ile Leu Leu Asn Val Phe Leu Ala
290 295 300
60 Ile Ala Val Asp Asn Leu Ala Asp Ala Glu Ser Leu Asn Thr Ala Gln
305 310 315 320
Lys Glu Glu Ala Glu Glu Lys Glu Arg Lys Lys Ile Ala Arg Lys Glu
325 330 335

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5	Asn	Ser	Asp	Asn	Lys	Val	Thr	Ile	Asp	Asp	Tyr	Arg	Glu	Glu	Asp	Glu	
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	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	
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	Ala	Lys	Gly	Leu	Lys	His	Val	Val	Gln	Cys	Val	Phe	Val	Ala	Ile	Arg	
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	Thr	Ile	Gly	Asn	Ile	Met	Ile	Val	Thr	Thr	Leu	Leu	Gln	Phe	Met	Phe	
	625					630					635					640	
	Ala	Cys	Ile	Gly	Val	Gln	Leu	Phe	Lys	Gly	Lys	Phe	Tyr	Arg	Cys	Thr	
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	Asp	Glu	Ala	Lys	Ser	Asn	Pro	Glu	Glu	Cys	Arg	Gly	Leu	Phe	Ile	Leu	
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	Tyr	Lys	Asp	Gly	Asp	Val	Asp	Ser	Pro	Val	Val	Arg	Glu	Arg	Ile	Trp	
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		755						760					765				
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	770						775					780					
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	Leu	Ala	Met	Gln	His	Tyr	Glu	Gln	Ser	Lys	Met	Phe	Asn	Asp	Ala	Met	
		835						840					845				
35	Asp	Ile	Leu	Asn	Met	Val	Phe	Thr	Gly	Val	Phe	Thr	Val	Glu	Met	Val	
	850						855					860					
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	1055						1060					1065			
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15	1070						1075					1080			
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	1085						1090					1095			
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	1100						1105					1110			
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	1220						1225					1230			
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	1280						1285					1290			
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	1310						1315					1320			

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	Thr Val Leu Ser Trp Gln Ala Ala Ile Asp Ala Ala Arg Gln Ala Lys	

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	130 135 140						
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45	ttg ttt agt gta att ttg gaa caa tta acc aaa gaa aca gaa ggc ggg	790					
	Leu Phe Ser Val Ile Leu Glu Gln Leu Thr Lys Glu Thr Glu Gly Gly						
	210 215 220						
50	aac cac tca agc ggc aaa tct gga ggc ttt gat gtc aaa gcc ctc cgt	838					
	Asn His Ser Ser Gly Lys Ser Gly Gly Phe Asp Val Lys Ala Leu Arg						
	225 230 235 240						
55	gcc ttt cga gtg ttg cga cca ctt cga cta gtg tca ggg gtg ccc agt	886					
	Ala Phe Arg Val Leu Arg Pro Leu Arg Leu Val Ser Gly Val Pro Ser						
	245 250 255						
60	tta caa gtt gtc ctg aac tcc att ata aaa gcc atg gtt ccc ctc ctt	934					
	Leu Gln Val Val Leu Asn Ser Ile Ile Lys Ala Met Val Pro Leu Leu						
	260 265 270						
65	cac ata gcc ctt ttg gta tta ttt gta atc ata atc tat gct att ata	982					
	His Ile Ala Leu Leu Val Leu Phe Val Ile Ile Ile Tyr Ala Ile Ile						
	275 280 285						
70	gga ttg gaa ctt ttt att gga aaa atg cac aaa aca tgt ttt ttt gct	1030					
	Gly Leu Glu Leu Phe Ile Gly Lys Met His Lys Thr Cys Phe Phe Ala						
	290 295 300						
75	gac tca gat atc gta gct gaa gag gac cca gct cca tgt gcg ttc tca	1078					
	Asp Ser Asp Ile Val Ala Glu Glu Asp Pro Ala Pro Cys Ala Phe Ser						

	305			310			315			320							
5	ggg	aat	gga	cgc	cag	tgt	act	gcc	aat	ggc	acg	gaa	tgt	agg	agt	ggc	1126
	Gly	Asn	Gly	Arg	Gln	Cys	Thr	Ala	Asn	Gly	Thr	Glu	Cys	Arg	Ser	Gly	
				325						330					335		
10	tgg	gtt	ggc	ccg	aac	gga	ggc	atc	acc	aac	ttt	gat	aac	ttt	gcc	ttt	1174
	Trp	Val	Gly	Pro	Asn	Gly	Gly	Ile	Thr	Asn	Phe	Asp	Asn	Phe	Ala	Phe	
				340					345					350			
15	gcc	atg	ctt	act	gtg	ttt	cag	tgc	atc	acc	atg	gag	ggc	tgg	aca	gac	1222
	Ala	Met	Leu	Thr	Val	Phe	Gln	Cys	Ile	Thr	Met	Glu	Gly	Trp	Thr	Asp	
				355				360					365				
20	gtg	ctc	tac	tgg	gta	aat	gat	gcg	ata	gga	tgg	gaa	tgg	cca	tgg	gtg	1270
	Val	Leu	Tyr	Trp	Val	Asn	Asp	Ala	Ile	Gly	Trp	Glu	Trp	Pro	Trp	Val	
		370					375					380					
25	tat	ttt	gtt	agt	ctg	atc	atc	ctt	ggc	tca	ttt	ttc	gtc	ctt	aac	ctg	1318
	Tyr	Phe	Val	Ser	Leu	Ile	Ile	Leu	Gly	Ser	Phe	Phe	Val	Leu	Asn	Leu	
	385					390					395					400	
30	gtt	ctt	ggt	gtc	ctt	agt	gga	gaa	ttc	tca	aag	gaa	aga	gag	aag	gca	1366
	Val	Leu	Gly	Val	Leu	Ser	Gly	Glu	Phe	Ser	Lys	Glu	Arg	Glu	Lys	Ala	
				405					410					415			
35	aaa	gca	cgg	gga	gat	ttc	cag	aag	ctc	cgg	gag	aag	cag	cag	ctg	gag	1414
	Lys	Ala	Arg	Gly	Asp	Phe	Gln	Lys	Leu	Arg	Glu	Lys	Gln	Gln	Leu	Glu	
				420					425					430			
40	gag	gat	cta	aag	ggc	tac	ttg	gat	tgg	atc	acc	caa	gct	gag	gac	atc	1462
	Glu	Asp	Leu	Lys	Gly	Tyr	Leu	Asp	Trp	Ile	Thr	Gln	Ala	Glu	Asp	Ile	
				435				440					445				
45	gat	ccg	gag	aat	gag	gaa	gaa	gga	gga	gag	gaa	ggc	aaa	cga	aat	act	1510
	Asp	Pro	Glu	Asn	Glu	Glu	Glu	Gly	Gly	Glu	Glu	Gly	Lys	Arg	Asn	Thr	
		450					455					460					
50	agc	atg	ccc	acc	agc	gag	act	gag	tct	gtg	aac	aca	gag	aac	gtc	agc	1558
	Ser	Met	Pro	Thr	Ser	Glu	Thr	Glu	Ser	Val	Asn	Thr	Glu	Asn	Val	Ser	
	465					470					475					480	
55	ggt	gaa	ggc	gag	aac	cga	ggc	tgc	tgt	gga	agt	ctc	tgg	tgc	tgg	tgg	1606
	Gly	Glu	Gly	Glu	Asn	Arg	Gly	Cys	Cys	Gly	Ser	Leu	Trp	Cys	Trp	Trp	
				485					490					495			
60	aga	cgg	aga	ggc	gcg	gcc	aag	gcg	ggg	ccc	tct	ggg	tgt	cgg	cgg	tgg	1654
	Arg	Arg	Arg	Gly	Ala	Ala	Lys	Ala	Gly	Pro	Ser	Gly	Cys	Arg	Arg	Trp	
				500					505					510			
65	ggt	caa	gcc	atc	tca	aaa	tcc	aaa	ctc	agc	cga	cgc	tgg	cgt	cgc	tgg	1702
	Gly	Gln	Ala	Ile	Ser	Lys	Ser	Lys	Leu	Ser	Arg	Arg	Trp	Arg	Arg	Trp	
				515					520					525			
70	aac	cga	ttc	aat	cgc	aga	aga	tgt	agg	gcc	gcc	gtg	aag	tct	gtc	acg	1750
	Asn	Arg	Phe	Asn	Arg	Arg	Arg	Cys	Arg	Ala	Ala	Val	Lys	Ser	Val	Thr	
		530					535					540					
75	ttt	tac	tgg	ctg	gtt	atc	gtc	ctg	gtg	ttt	ctg	aac	acc	tta	acc	att	1798
	Phe	Tyr	Trp	Leu	Val	Ile	Val	Leu	Val	Phe	Leu	Asn	Thr	Leu	Thr	Ile	
	545					550					555					560	
80	tcc	tct	gag	cac	tac	aat	cag	cca	gat	tgg	ttg	aca	cag	att	caa	gat	1846
	Ser	Ser	Glu	His	Tyr	Asn	Gln	Pro	Asp	Trp	Leu	Thr	Gln	Ile	Gln	Asp	

	565										570										575										
5	att	gcc	aac	aaa	gtc	ctc	ttg	gct	ctg	ttc	acc	tgc	gag	atg	ctg	gta	1894														
	Ile	Ala	Asn	Lys	Val	Leu	Leu	Ala	Leu	Phe	Thr	Cys	Glu	Met	Leu	Val															
10	aaa	atg	tac	agc	ttg	ggc	ctc	caa	gca	tat	ttc	gtc	tct	ctt	ttc	aac	1942														
	Lys	Met	Tyr	Ser	Leu	Gly	Leu	Gln	Ala	Tyr	Phe	Val	Ser	Leu	Phe	Asn															
15	cgg	ttt	gat	tgc	ttc	gtg	gtg	tgt	ggg	gga	atc	act	gag	acg	atc	ctg	1990														
	Arg	Phe	Asp	Cys	Phe	Val	Val	Cys	Gly	Gly	Ile	Thr	Glu	Thr	Ile	Leu															
20	gtg	gaa	ctg	gaa	atc	atg	tct	ccc	ctg	ggg	atc	tct	gtg	ttt	cgg	tgt	2038														
	Val	Glu	Leu	Glu	Ile	Met	Ser	Pro	Leu	Gly	Ile	Ser	Val	Phe	Arg	Cys															
25	gtg	cgc	ctc	tta	aga	atc	ttc	aaa	gtg	acc	agg	cac	tgg	act	tcc	ctg	2086														
	Val	Arg	Leu	Leu	Arg	Ile	Phe	Lys	Val	Thr	Arg	His	Trp	Thr	Ser	Leu															
30	agc	aac	tta	gtg	gca	tcc	tta	tta	aac	tcc	atg	aag	tcc	atc	gct	tcg	2134														
	Ser	Asn	Leu	Val	Ala	Ser	Leu	Leu	Asn	Ser	Met	Lys	Ser	Ile	Ala	Ser															
35	ctg	ttg	ctt	ctg	ctt	ttt	ctc	ttc	att	atc	atc	ttt	tcc	ttg	ctt	ggg	2182														
	Leu	Leu	Leu	Leu	Leu	Phe	Leu	Phe	Ile	Ile	Ile	Phe	Ser	Leu	Leu	Gly															
40	atg	cag	ctg	ttt	ggc	ggc	aag	ttt	aat	ttt	gat	gaa	acg	caa	acc	aag	2230														
	Met	Gln	Leu	Phe	Gly	Gly	Lys	Phe	Asn	Phe	Asp	Glu	Thr	Gln	Thr	Lys															
45	cgg	agc	acc	ttt	gac	aat	ttc	cct	caa	gca	ctt	ctc	aca	gtg	ttc	cag	2278														
	Arg	Ser	Thr	Phe	Asp	Asn	Phe	Pro	Gln	Ala	Leu	Leu	Thr	Val	Phe	Gln															
50	atc	ctg	aca	ggc	gaa	gac	tgg	aat	gct	gtg	atg	tac	gat	ggc	atc	atg	2326														
	Ile	Leu	Thr	Gly	Glu	Asp	Trp	Asn	Ala	Val	Met	Tyr	Asp	Gly	Ile	Met															
55	gct	tac	ggg	ggc	cca	tcc	tct	tca	gga	atg	atc	gtc	tgc	atc	tac	ttc	2374														
	Ala	Tyr	Gly	Gly	Pro	Ser	Ser	Ser	Gly	Met	Ile	Val	Cys	Ile	Tyr	Phe															
60	atc	atc	ctc	ttc	att	tgt	ggg	aac	tat	att	cta	ctg	aat	gtc	ttc	ttg	2422														
	Ile	Ile	Leu	Phe	Ile	Cys	Gly	Asn	Tyr	Ile	Leu	Leu	Asn	Val	Phe	Leu															
65	gcc	atc	gct	gta	gac	aat	ttg	gct	gat	gct	gaa	agt	ctg	aac	act	gct	2470														
	Ala	Ile	Ala	Val	Asp	Asn	Leu	Ala	Asp	Ala	Glu	Ser	Leu	Asn	Thr	Ala															
70	cag	aaa	gaa	gaa	gcg	gaa	gaa	aag	gag	agg	aaa	aag	att	gcc	aga	aaa	2518														
	Gln	Lys	Glu	Glu	Ala	Glu	Glu	Lys	Glu	Arg	Lys	Lys	Ile	Ala	Arg	Lys															
75	gag	agc	cta	gaa	aat	aaa	aag	aac	aac	aaa	cca	gaa	gtc	aac	cag	ata	2566														
	Glu	Ser	Leu	Glu	Asn	Lys	Lys	Asn	Asn	Lys	Pro	Glu	Val	Asn	Gln	Ile															
80	gcc	aac	agt	gac	aac	aag	gtt	aca	att	gat	gac	tat	aga	gaa	gag	gat	2614														
	Ala	Asn	Ser	Asp	Asn	Lys	Val	Thr	Ile	Asp	Asp	Tyr	Arg	Glu	Glu	Asp															

	820	825	830	
5	gaa gac aag gac ccc tat ccg cct tgc gat gtg cca gta ggg gaa gag Glu Asp Lys Asp Pro Tyr Pro Pro Cys Asp Val Pro Val Gly Glu Glu 835 840 845			2662
10	gaa gag gaa gag gag gag gat gaa cct gag gtt cct gcc gga ccc cgt Glu Glu Glu Glu Glu Glu Asp Glu Pro Glu Val Pro Ala Gly Pro Arg 850 855 860			2710
15	cct cga agg atc tcg gag ttg aac atg aag gaa aaa att gcc ccc atc Pro Arg Arg Ile Ser Glu Leu Asn Met Lys Glu Lys Ile Ala Pro Ile 865 870 875 880			2758
20	cct gaa ggg agc gct ttc ttc att ctt agc aag acc aac ccg atc cgc Pro Glu Gly Ser Ala Phe Phe Ile Leu Ser Lys Thr Asn Pro Ile Arg 885 890 895			2806
25	gta ggc tgc cac aag ctc atc aac cac cac atc ttc acc aac ctc atc Val Gly Cys His Lys Leu Ile Asn His His Ile Phe Thr Asn Leu Ile 900 905 910			2854
30	ctt gtc ttc atc atg ctg agc agc gct gcc ctg gcc gca gag gac ccc Leu Val Phe Ile Met Leu Ser Ser Ala Ala Leu Ala Ala Glu Asp Pro 915 920 925			2902
35	atc cgc agc cac tcc ttc cgg aac acg ata ctg ggt tac ttt gac tat Ile Arg Ser His Ser Phe Arg Asn Thr Ile Leu Gly Tyr Phe Asp Tyr 930 935 940			2950
40	gcc ttc aca gcc atc ttt act gtt gag atc ctg ttg aag atg aca act Ala Phe Thr Ala Ile Phe Thr Val Glu Ile Leu Leu Lys Met Thr Thr 945 950 955 960			2998
45	ttt gga gct ttc ctc cac aaa ggg gcc ttc tgc agg aac tac ttc aat Phe Gly Ala Phe Leu His Lys Gly Ala Phe Cys Arg Asn Tyr Phe Asn 965 970 975			3046
50	ttg ctg gat atg ctg gtg gtt ggg gtg tct ctg gtg tca ttt ggg att Leu Leu Asp Met Leu Val Val Gly Val Ser Leu Val Ser Phe Gly Ile 980 985 990			3094
55	caa tcc agt gcc atc tcc gtt gtg aag att ctg agg gtc tta agg gtc Gln Ser Ser Ala Ile Ser Val Val Lys Ile Leu Arg Val Leu Arg Val 995 1000 1005			3142
60	ctg cgt ccc ctc agg gcc atc aac aga gca aaa gga ctt aag cac Leu Arg Pro Leu Arg Ala Ile Asn Arg Ala Lys Gly Leu Lys His 1010 1015 1020			3187
65	gtg gtc cag tgc gtc ttc gtg gcc atc cgg acc atc ggc aac atc Val Val Gln Cys Val Phe Val Ala Ile Arg Thr Ile Gly Asn Ile 1025 1030 1035			3232
70	atg atc gtc act acc ctc ctg cag ttc atg ttt gcc tgt atc ggg Met Ile Val Thr Thr Leu Leu Gln Phe Met Phe Ala Cys Ile Gly 1040 1045 1050			3277
75	gtc cag ttg ttc aag ggg aag ttc tat cgc tgt acg gat gaa gcc Val Gln Leu Phe Lys Gly Lys Phe Tyr Arg Cys Thr Asp Glu Ala 1055 1060 1065			3322
80	aaa agt aac cct gaa gaa tgc agg gga ctt ttc atc ctc tac aag Lys Ser Asn Pro Glu Glu Cys Arg Gly Leu Phe Ile Leu Tyr Lys			3367

	1070	1075	1080	
5	gat ggg gat gtt gac agt cct Asp Gly 1085	gtg gtc cgt gaa cgg Val Val Arg Glu Arg 1095	atc tgg caa Ile Trp Gln	3412
10	aac agt gat ttc aac ttc gac Asn Ser 1100	aac gtc ctc tct gct Asn Val Leu Ser Ala 1110	atg atg gcg Met Met Ala	3457
15	ctc ttc aca gtc tcc acg ttt Leu Phe 1115	gag ggc tgg cct gcg Glu Gly Trp Pro Ala 1125	ttg ctg tat Leu Leu Tyr	3502
20	aaa gcc atc gac tcg aat gga Lys Ala 1130	gag aac atc ggc cca Glu Asn Ile Gly Pro 1140	atc tac aac Ile Tyr Asn	3547
25	cac cgc gtg gag atc tcc atc His Arg 1145	ttc ttc atc atc tac Phe Phe Ile Ile Tyr 1155	atc atc att Ile Ile Ile	3592
30	gta gct ttc ttc atg atg aac Val Ala 1160	atc ttt gtg ggc ttt Ile Phe Val Gly Phe 1170	gtc atc gtt Val Ile Val	3637
35	aca ttt cag gaa caa gga gaa Thr Phe 1175	aaa gag tat aag aac Lys Glu Tyr Lys Asn 1185	tgt gag ctg Cys Glu Leu	3682
40	gac aaa aat cag cgt cag tgt Asp Lys 1190	gtt gaa tac gcc ttg Val Glu Tyr Ala Leu 1200	aaa gca cgt Lys Ala Arg	3727
45	ccc ttg cgg aga tac atc ccc Pro Leu 1205	aaa aac ccc tac cag Lys Asn Pro Tyr Glu 1215	tac aag ttc Tyr Lys Phe	3772
50	tggtac gtggtg aactct tcg Trp Tyr 1220	cctttc gaatac atg Pro Phe Glu Tyr Met 1230	atgttt gtc Met Phe Val	3817
55	ctc atc atg ctc aac aca ctc Leu Ile 1235	tgc ttg gcc atg cag Cys Leu Ala Met Glu 1245	cac tac gag His Tyr Glu	3862
60	cag tcc aag atg ttc aat gat Gln Ser 1250	gcc atg gac att ctg Ala Met Asp Ile Leu 1260	aac atg gtc Asn Met Val	3907
65	ttc acc ggg gtg ttc acc gtc Phe Thr 1265	gag atg gtt ttg aaa Glu Met Val Leu Lys 1275	gtc atc gca Val Ile Ala	3952
70	ttt aag cct aag ggg tat ttt Phe Lys 1280	agt gac gcc tgg aac Ser Asp Ala Trp Asn 1290	acg ttt gac Thr Phe Asp	3997
75	tcc ctc atc gta atc ggc agc Ser Leu 1295	att ata gac gtg gcc Ile Ile Asp Val Ala 1305	ctc agc gaa Leu Ser Glu	4042
80	gcg gac cca act gaa agt gaa Ala Asp 1300	aat gtc cct gtc cca Asn Val Pro Val Pro 1305	act gct aca Thr Ala Thr	4087

		1550					1555				1560						
		gtc atg ttt aat gca acc ctg ttt gct ttg gtt cga acg gct ctt															4852
		Val Met Phe Asn Ala Thr Leu Phe Ala Leu Val Arg Thr Ala Leu															
5		1565					1570				1575						
		aag atc aag acc gaa ggg aac ctg gag caa gct aat gaa gaa ctt															4897
		Lys Ile Lys Thr Glu Gly Asn Leu Glu Gln Ala Asn Glu Glu Leu															
10		1580					1585				1590						
		cgg gct gtg ata aag aaa att tgg aag aaa acc agc atg aaa tta															4942
		Arg Ala Val Ile Lys Lys Ile Trp Lys Lys Thr Ser Met Lys Leu															
		1595					1600				1605						
15		ctt gac caa gtt gtc cct cca gct ggt gat gat gag gta acc gtg															4987
		Leu Asp Gln Val Val Pro Pro Ala Gly Asp Asp Glu Val Thr Val															
		1610					1615				1620						
20		ggg aag ttc tat gcc act ttc ctg ata cag gac tac ttt agg aaa															5032
		Gly Lys Phe Tyr Ala Thr Phe Leu Ile Gln Asp Tyr Phe Arg Lys															
		1625					1630				1635						
		ttc aag aaa cgg aaa gaa caa gga ctg gtg gga aag tac cct gcg															5077
		Phe Lys Lys Arg Lys Glu Gln Gly Leu Val Gly Lys Tyr Pro Ala															
25		1640					1645				1650						
		aag aac acc aca att gcc cta cag gcg gga tta agg aca ctg cat															5122
		Lys Asn Thr Thr Ile Ala Leu Gln Ala Gly Leu Arg Thr Leu His															
		1655					1660				1665						
30		gac att ggg cca gaa atc cgg cgt gct ata tcg tgt gat ttg caa															5167
		Asp Ile Gly Pro Glu Ile Arg Arg Ala Ile Ser Cys Asp Leu Gln															
		1670					1675				1680						
35		gat gac gag cct gag gaa aca aaa cga gaa gaa gaa gat gat gtg															5212
		Asp Asp Glu Pro Glu Glu Thr Lys Arg Glu Glu Glu Asp Asp Val															
		1685					1690				1695						
40		ttc aaa aga aat ggt gcc ctg ctt gga aac cat gtc aat cat gtt															5257
		Phe Lys Arg Asn Gly Ala Leu Leu Gly Asn His Val Asn His Val															
		1700					1705				1710						
		aat agt gat agg aga gat tcc ctt cag cag acc aat acc acc cac															5302
		Asn Ser Asp Arg Arg Asp Ser Leu Gln Gln Thr Asn Thr Thr His															
45		1715					1720				1725						
		cgt ccc ctg cat gtc caa agg cct tca att cca cct gca agt gat															5347
		Arg Pro Leu His Val Gln Arg Pro Ser Ile Pro Pro Ala Ser Asp															
		1730					1735				1740						
50		act gag aaa ccg ctg ttt cct cca gca gga aat tcg gtg tgt cat															5392
		Thr Glu Lys Pro Leu Phe Pro Pro Ala Gly Asn Ser Val Cys His															
		1745					1750				1755						
55		aac cat cat aac cat aat tcc ata gga aag caa gtt ccc acc tca															5437
		Asn His His Asn His Asn Ser Ile Gly Lys Gln Val Pro Thr Ser															
		1760					1765				1770						
60		aca aat gcc aat ctc aat aat gcc aat atg tcc aaa gct gcc cat															5482
		Thr Asn Ala Asn Leu Asn Asn Ala Asn Met Ser Lys Ala Ala His															
		1775					1780				1785						
		gga aag cgg ccc agc att ggg aac ctt gag cat gtg tct gaa aat															5527
		Gly Lys Arg Pro Ser Ile Gly Asn Leu Glu His Val Ser Glu Asn															

	1790		1795		1800	
5	ggg cat cat tct tcc cac aag Gly His His Ser Ser His Lys 1805 1810	cat gac cgg gag cct His Asp Arg Glu Pro 1815	cag aga agg Gln Arg Arg	5572		
10	tcc agt gtg aaa aga acc cgc Ser Ser Val Lys Arg Thr Arg 1820 1825	tat tat gaa act tac Tyr Tyr Glu Thr Tyr 1830	att agg tcc Ile Arg Ser	5617		
15	gac tca gga gat gaa cag ctc Asp Ser Gly Asp Glu Gln Leu 1835 1840	cca act att tgc cgg Pro Thr Ile Cys Arg 1845	gaa gac cca Glu Asp Pro	5662		
20	gag ata cat ggc tat ttc agg Glu Ile His Gly Tyr Phe Arg 1850 1855	gac ccc cac tgc ttg Asp Pro His Cys Leu 1860	ggg gag cag Gly Glu Gln	5707		
25	gag tat ttc agt agt gag gaa Glu Tyr Phe Ser Ser Glu 1865 1870	tgc tac gag gat gac Cys Tyr Glu Asp 1875	agc tcg ccc Ser Ser Pro	5752		
30	acc tgg agc agg caa aac tat Thr Trp Ser Arg Gln Asn Tyr 1880 1885	ggc tac tac agc aga Gly Tyr Tyr Ser Arg 1890	tac cca ggc Tyr Pro Gly	5797		
35	aga aac atc gac tct gag agg Arg Asn Ile Asp Ser Glu Arg 1895 1900	ccc cga ggc tac cat Pro Arg Gly Tyr His 1905	cat ccc caa His Pro Gln	5842		
40	gga ttc ttg gag gac gat gac Gly Phe Leu Glu Asp Asp 1910 1915	tcg ccc gtt tgc tat Ser Pro Val Cys Tyr 1920	gat tca cgg Asp Ser Arg	5887		
45	aga tct cca agg aga cgc cta Arg Ser Pro Arg Arg Arg Leu 1925 1930	cta cct ccc acc cca Leu Pro Pro Thr Pro 1935	gca tcc cac Ala Ser His	5932		
50	cgg aga tcc tcc ttc aac ttt Arg Arg Ser Ser Phe Asn Phe 1940 1945	gag tgc ctg cgc cgg Glu Cys Leu Arg Arg 1950	cag agc agc Gln Ser Ser	5977		
55	cag gaa gag gtc ccg tcg tct Gln Glu Glu Val Pro Ser Ser 1955 1960	ccc atc ttc ccc cat Pro Ile Phe Pro His 1965	cgc acg gcc Arg Thr Ala	6022		
60	ctg cct ctg cat cta atg cag Leu Pro Leu His Leu Met Gln 1970 1975	caa cag atc atg gca Gln Gln Ile Met Ala 1980	gtt gcc ggc Val Ala Gly	6067		
65	cta gat tca agt aaa gcc cag Leu Asp Ser Ser Lys Ala Gln 1985 1990	aag tac tca ccg agt Lys Tyr Ser Pro Ser 1995	cac tcg acc His Ser Thr	6112		
70	cgg tcg tgg gcc acc cct cca Arg Ser Trp Ala Thr Pro Pro 2000 2005	gca acc cct ccc tac Ala Thr Pro Pro Tyr 2010	cgg gac tgg Arg Asp Trp	6157		
75	aca ccg tgc tac acc ccc ctg Thr Pro Cys Tyr Thr Pro Leu 2015 2020	atc caa gtg gag cag Ile Gln Val Glu Gln 2025	tca gag gcc Ser Glu Ala	6202		
80	ctg gac cag gtg aac ggc agc Leu Asp Gln Val Asn Gly Ser 2025 2030	ctg ccg tcc ctg cac Leu Pro Ser Leu His 2035	cgc agc tcc Arg Ser Ser	6247		

	2030	2035	2040	
5	tgg tac aca gac gag ccc Trp Tyr Thr Asp Glu Pro 2045	gac atc tcc tac cgg act Asp Ile Ser Tyr Arg Thr 2050	ttc aca cca Phe Thr Pro 2055	6292
10	gcc agc ctg act gtc ccc Ala Ser Leu Thr Val Pro 2060	agc agc ttc cgg aac aaa Ser Ser Phe Arg Asn Lys 2065	aac agc gac Asn Ser Asp 2070	6337
	aag cag agg agt gcg gac Lys Gln Arg Ser Ala Asp 2075	agc ttg gtg gag gca gtc Ser Leu Val Glu Ala Val 2080	ctg ata tcc Leu Ile Ser 2085	6382
15	gaa ggc ttg gga cgc tat Glu Gly Leu Gly Arg Tyr 2090	gca agg gac cca aaa ttt Ala Arg Asp Pro Lys Phe 2095	gtg tca gca Val Ser Ala 2100	6427
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Met Met Met Met Met Met Met Lys Lys Met Gln His Gln Arg Gln Gln
1 5 10 15

caa gcg gac cac gcg aac gag gca aac tat gca aga ggc acc aga ctt 214
Gln Ala Asp His Ala Asn Glu Ala Asn Tyr Ala Arg Gly Thr Arg Leu
20 25 30

cct ctt tct ggt gaa gga cca act tct cag ccg aat agc tcc aag caa 262
Pro Leu Ser Gly Glu Gly Pro Thr Ser Gln Pro Asn Ser Ser Lys Gln
20 35 40 45

act gtc ctg tct tgg caa gct gca atc gat gct gct aga cag gcc aag 310
Thr Val Leu Ser Trp Gln Ala Ala Ile Asp Ala Ala Arg Gln Ala Lys
25 50 55 60

gct gcc caa act atg agc acc tct gca ccc cca cct gta gga tct ctc 358
Ala Ala Gln Thr Met Ser Thr Ser Ala Pro Pro Pro Val Gly Ser Leu
65 70 75 80

30 tcc caa aga aaa cgt cag caa tac gcc aag agc aaa aaa cag ggt aac 406
Ser Gln Arg Lys Arg Gln Gln Tyr Ala Lys Ser Lys Lys Gln Gly Asn
85 90 95

35 tcg tcc aac agc cga cct gcc cgc gcc ctt ttc tgt tta tca ctc aat 454
Ser Ser Asn Ser Arg Pro Ala Arg Ala Leu Phe Cys Leu Ser Leu Asn
100 105 110

aac ccc atc cga aga gcc tgc att agt ata gtg gaa tgg aaa cca ttt 502
Asn Pro Ile Arg Arg Ala Cys Ile Ser Ile Val Glu Trp Lys Pro Phe
115 120 125

gac ata ttt ata tta ttg gct att ttt gcc aat tgt gtg gcc tta gct 550
Asp Ile Phe Ile Leu Leu Ala Ile Phe Ala Asn Cys Val Ala Leu Ala
130 135 140

45 att tac atc cca ttc cct gaa gat gat tct aat tca aca aat cat aac 598
Ile Tyr Ile Pro Phe Pro Glu Asp Asp Ser Asn Ser Thr Asn His Asn
145 150 155 160

50 ttg gaa aaa gta gaa tat gcc ttc ctg att att ttt aca gtc gag aca 646
Leu Glu Lys Val Glu Tyr Ala Phe Leu Ile Ile Phe Thr Val Glu Thr
165 170 175

55 ttt ttg aag att ata gcg tat gga tta ttg cta cat cct aat gct tat 694
Phe Leu Lys Ile Ile Ala Tyr Gly Leu Leu Leu His Pro Asn Ala Tyr
180 185 190

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Val Arg Asn Gly Trp Asn Leu Leu Asp Phe Val Ile Val Ile Val Gly
195 200 205

ttg ttt agt gta att ttg gaa caa tta acc aaa gaa aca gaa ggc ggg 790
Leu Phe Ser Val Ile Leu Glu Gln Leu Thr Lys Glu Thr Glu Gly Gly

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15	tta caa gtt gtc ctg aac tcc att ata aaa gcc atg gtt ccc ctc ctt Leu Gln Val Val Leu Asn Ser Ile Ile Lys Ala Met Val Pro Leu Leu 260 265 270			934
20	cac ata gcc ctt ttg gta tta ttt gta atc ata atc tat gct att ata His Ile Ala Leu Leu Val Leu Phe Val Ile Ile Ile Tyr Ala Ile Ile 275 280 285			982
25	gga ttg gaa ctt ttt att gga aaa atg cac aaa aca tgt ttt ttt gct Gly Leu Glu Leu Phe Ile Gly Lys Met His Lys Thr Cys Phe Phe Ala 290 295 300			1030
30	gac tca gat atc gta gct gaa gag gac cca gct cca tgt gcg ttc tca Asp Ser Asp Ile Val Ala Glu Glu Asp Pro Ala Pro Cys Ala Phe Ser 305 310 315 320			1078
35	ggg aat gga cgc cag tgt act gcc aat ggc acg gaa tgt agg agt ggc Gly Asn Gly Arg Gln Cys Thr Ala Asn Gly Thr Glu Cys Arg Ser Gly 325 330 335			1126
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65	aaa gca cgg gga gat ttc cag aag ctc cgg gag aag cag cag ctg gag Lys Ala Arg Gly Asp Phe Gln Lys Leu Arg Glu Lys Gln Gln Leu Glu 420 425 430			1414
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75	gat ccg gag aat gag gaa gaa gga gga gag gaa ggc aaa cga aat act Asp Pro Glu Asn Glu Glu Glu Gly Gly Glu Glu Gly Lys Arg Asn Thr 450 455 460			1510
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	Ser	Ser	Glu	His	Tyr	Asn	Gln	Pro	Asp	Trp	Leu	Thr	Gln	Ile	Gln	Asp					
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35	att	gcc	aac	aaa	gtc	ctc	ttg	gct	ctg	ttc	acc	tgc	gag	atg	ctg	gta		1894			
	Ile	Ala	Asn	Lys	Val	Leu	Leu	Ala	Leu	Phe	Thr	Cys	Glu	Met	Leu	Val					
	580					585					590										
40	aaa	atg	tac	agc	ttg	ggc	ctc	caa	gca	tat	ttc	gtc	tct	ctt	ttc	aac		1942			
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45	cgg	ttt	gat	tgc	ttc	gtg	gtg	tgt	ggt	gga	atc	act	gag	acg	atc	ctg		1990			
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	Val	Glu	Leu	Glu	Ile	Met	Ser	Pro	Leu	Gly	Ile	Ser	Val	Phe	Arg	Cys					
	625					630					635					640					
55	gtg	cgc	ctc	tta	aga	atc	ttc	aaa	gtg	acc	agg	cac	tgg	act	tcc	ctg		2086			
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65	ctg	ttg	ctt	ctg	ctt	ttt	ctc	ttc	att	atc	atc	ttt	tcc	ttg	ctt	ggg		2182			
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	675					680					685										
70	atg	cag	ctg	ttt	ggc	ggc	aag	ttt	aat	ttt	gat	gaa	acg	caa	acc	aag		2230			
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75	cgg	agc	acc	ttt	gac	aat	ttc	cct	caa	gca	ctt	ctc	aca	gtg	ttc	cag		2278			
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	Ala	Asn	Ser	Asp	Asn	Lys	Val	Thr	Ile	Asp	Asp	Tyr	Arg	Glu	Glu	Asp		
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	Glu	Asp	Lys	Asp	Pro	Tyr	Pro	Pro	Cys	Asp	Val	Pro	Val	Gly	Glu	Glu		
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	Ile	Arg	Ser	His	Ser	Phe	Arg	Asn	Thr	Ile	Leu	Gly	Tyr	Phe	Asp	Tyr		
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	Ala	Phe	Thr	Ala	Ile	Phe	Thr	Val	Glu	Ile	Leu	Leu	Lys	Met	Thr	Thr		
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	1010	1015	1020	
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	1040	1045	1050	
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	1055	1060	1065	
25	aaa agt aac cct gaa gaa tgc Lys Ser Asn Pro Glu Glu Cys	agg gga ctt ttc atc Arg Gly Leu Phe Ile	ctc tac aag Leu Tyr Lys	3367
	1070	1075	1080	
30	gat ggg gat gtt gac agt cct Asp Gly Asp Val Asp Ser Pro	gtg gtc cgt gaa cgg Val Val Arg Glu Arg	atc tgg caa Ile Trp Gln	3412
	1085	1090	1095	
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	1100	1105	1110	
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	1145	1150	1155	
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	1160	1165	1170	
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	1190	1195	1200	
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	1205	1210	1215	
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	Leu	Ile	Ile	Asn	Leu	Phe	Val	Ala	Val	Ile	Met	Asp	Asn	Phe	Asp		
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		Gly His 1805 His Ser Ser His Lys 1810 His Asp Arg Glu Pro 1815 Gln Arg Arg														
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5	cag gaa gag gtc ccg tcg tct Gln Glu Glu Val Pro Ser Ser 1955	ccc atc ttc ccc cat Pro Ile Phe Pro His 1960	cgc acg gcc Arg Thr Ala 1965	6022
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15	cta gat tca agt aaa gcc cag Leu Asp Ser Ser Lys Ala Gln 1985	aag tac tca ccg agt Lys Tyr Ser Pro Ser 1990	cac tcg acc His Ser Thr 1995	6112
20	cgg tcg tgg gcc acc cct cca Arg Ser Trp Ala Thr Pro Pro 2000	gca acc cct ccc tac Ala Thr Pro Pro Tyr 2005	cgc gac tgg Arg Asp Trp 2010	6157
25	aca ccg tgc tac acc ccc ctg Thr Pro Cys Tyr Thr Pro Leu 2015	atc caa gtg gag cag Ile Gln Val Glu Gln 2020	tca gag gcc Ser Glu Ala 2025	6202
30	ctg gac cag gtg aac ggc agc Leu Asp Gln Val Asn Gly Ser 2030	ctg ccg tcc ctg cac Leu Pro Ser Leu His 2035	cgc agc tcc Arg Ser Ser 2040	6247
35	tgg tac aca gac gag ccc gac Trp Tyr Thr Asp Glu Pro Asp 2045	atc tcc tac cgg act Ile Ser Tyr Arg Thr 2050	ttc aca cca Phe Thr Pro 2055	6292
40	gcc agc ctg act gtc ccc agc Ala Ser Leu Thr Val Pro Ser 2060	agc ttc cgg aac aaa Ser Phe Arg Asn Lys 2065	aac agc gac Asn Ser Asp 2070	6337
45	aag cag agg agt gcg gac agc Lys Gln Arg Ser Ala Asp Ser 2075	ttg gtg gag gca gtc Leu Val Glu Ala Val 2080	ctg ata tcc Leu Ile Ser 2085	6382
50	gaa ggc ttg gga cgc tat gca Glu Gly Leu Gly Arg Tyr Ala 2090	agg gac cca aaa ttt Arg Asp Pro Lys Phe 2095	gtg tca gca Val Ser Ala 2100	6427
55	aca aaa cac gaa atc gct gat Thr Lys His Glu Ile Ala Asp 2105	gcc tgt gac ctc acc Ala Cys Asp Leu Thr 2110	atc gac gag Ile Asp Glu 2115	6472
60	atg gag agt gca gcc agc acc Met Glu Ser Ala Ala Ser Thr 2120	ctg ctt aat ggg aac Leu Leu Asn Gly Asn 2125	gtg cgt ccc Val Arg Pro 2130	6517
65	cga gcc aac ggg gat gtg ggc Arg Ala Asn Gly Asp Val Gly 2135	ccc ctc tca cac cgg Pro Leu Ser His Arg 2140	cag gac tat Gln Asp Tyr 2145	6562
70	gag cta cag gac ttt ggt cct Glu Leu Gln Asp Phe Gly Pro 2150	ggc tac agc gac gaa Gly Tyr Ser Asp Glu 2155	gag cca gac Glu Pro Asp 2160	6607
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80	acc acc ttg tag ccccccagcga Thr Thr Leu	ggggcagact ggctctggcc	tcaggtgggg	6704

2180

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 35 40 45
 Thr Val Leu Ser Trp Gln Ala Ala Ile Asp Ala Ala Arg Gln Ala Lys
 40 50 55 60
 Ala Ala Gln Thr Met Ser Thr Ser Ala Pro Pro Pro Val Gly Ser Leu
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 45 Ser Gln Arg Lys Arg Gln Gln Tyr Ala Lys Ser Lys Lys Gln Gly Asn
 85 90 95
 Ser Ser Asn Ser Arg Pro Ala Arg Ala Leu Phe Cys Leu Ser Leu Asn
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 50 Asn Pro Ile Arg Arg Ala Cys Ile Ser Ile Val Glu Trp Lys Pro Phe
 115 120 125
 Asp Ile Phe Ile Leu Leu Ala Ile Phe Ala Asn Cys Val Ala Leu Ala
 55 130 135 140
 Ile Tyr Ile Pro Phe Pro Glu Asp Asp Ser Asn Ser Thr Asn His Asn
 145 150 155 160
 60 Leu Glu Lys Val Glu Tyr Ala Phe Leu Ile Ile Phe Thr Val Glu Thr
 165 170 175
 Phe Leu Lys Ile Ile Ala Tyr Gly Leu Leu Leu His Pro Asn Ala Tyr
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	Val	Arg	Asn	Gly	Trp	Asn	Leu	Leu	Asp	Phe	Val	Ile	Val	Ile	Val	Gly	
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5	Leu	Phe	Ser	Val	Ile	Leu	Glu	Gln	Leu	Thr	Lys	Glu	Thr	Glu	Gly	Gly	
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10	Ala	Phe	Arg	Val	Leu	Arg	Pro	Leu	Arg	Leu	Val	Ser	Gly	Val	Pro	Ser	
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5	Phe	Tyr	Trp	Leu	Val	Ile	Val	Leu	Val	Phe	Leu	Asn	Thr	Leu	Thr	Ile	
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				580					585					590			
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	610						615					620					
20	Val	Glu	Leu	Glu	Ile	Met	Ser	Pro	Leu	Gly	Ile	Ser	Val	Phe	Arg	Cys	
	625					630					635					640	
	Val	Arg	Leu	Leu	Arg	Ile	Phe	Lys	Val	Thr	Arg	His	Trp	Thr	Ser	Leu	
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	Ser	Asn	Leu	Val	Ala	Ser	Leu	Leu	Asn	Ser	Met	Lys	Ser	Ile	Ala	Ser	
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30	Leu	Leu	Leu	Leu	Leu	Phe	Leu	Phe	Ile	Ile	Ile	Phe	Ser	Leu	Leu	Gly	
			675					680					685				
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	785					790					795					800	
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55	Lys	Ala	Ile	Asp	Ser	Asn	Gly	Glu	Asn	Ile	Gly	Pro	Ile	Tyr	Asn			1130	1135	1140	
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 45 Cys Val Ala Leu Ala Val Tyr Leu Pro Met Pro Glu Asp Asp Asn Asn
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